CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Feb. 20	McCracken, Kan.	Feb. 16
Feb. 21	Galveston, Tex. Adv. Jan. 26 to Feb. 16.	Jan. 26
Feb. 21	Sabetha, Kan.	Feb. 16
Feb. 23	Burlington, N. J.	Feb. 16
Feb. 24	Cody, Wyo.	Feb. 9
Feb. 24	Kilbourn, Wis.	Feb. 16
Feb. 27	Oconomowoc, Wis.	Feb. 16
Feb. 27	Greenburgh, N. Y. Adv. Feb. 16.	Feb. 16
Feb. 28	Grove City, O.	Feb. 16
Mar. 1	Howard, Kan.	Feb. 16
Mar. 2	New York Adv. Feb. 16.	Feb. 16
Mar. 20	New Orleans, La. Adv. Jan. 26 to Feb. 16.	Jan. 26

SEWERS

Feb. 20	Burlington, N. C.	Feb. 2
Feb. 21	Bluefield, W. Va.	Feb. 2
Feb. 21	Springwells, Mich.	Feb. 9
Feb. 21	Cedartown, Ga. Adv. Feb. 9 and 16.	Feb. 16
Feb. 27	Oconomowoc, Wis.	Feb. 16
Feb. 28	Wash., D. C.	Feb. 9
Feb. 28	Davenport, Ia.	Feb. 9
Mar. 1	Howard, Kan.	Feb. 16
Mar. 4	Chillicothe, Mo.	Feb. 16
Mar. 6	Casper, Wyo.	Feb. 16
Mar. 7	Paterson, N. J.	Feb. 16
Mar. 7	Ridgefield Park, N. J. Adv. Feb. 16.	Feb. 16
Apr. 10	Los Angeles, Cal.	Feb. 16

BRIDGES

Feb. 20	Altamont, Cal.	Jan. 26
Feb. 20	Missouri	Feb. 16
Feb. 21	Lake Charles, La. Adv. Jan. 26 to Feb. 16.	Jan. 19
Feb. 23	Holmen, Wis.	Feb. 16
Feb. 24	North Carolina	Feb. 2
Feb. 24	North Carolina	Feb. 9
Mar. 6	Mercer, Pa. Adv. Feb. 9 and 16.	Feb. 9
Mar. 7	Greenfield, Ind.	Feb. 16
Mar. 14	Holyoke, Mass.	Feb. 9
Oct. 31	Sydney, Australia	Jan. 12

DAMS

Mar. 1	West Chester, Pa. Adv. Feb. 9 and. 16.	Feb. 16
Mar. 4	Ilion, N. Y. Adv. Feb. 9 and 16.	Feb. 9

EXCAVATION AND DREDGING

Feb. 21	Lamar, Col.	Feb. 9
Feb. 23	Fairmont, Minn.	Feb. 16
Feb. 23	Leon, Ia.	Feb. 9
Mar. 1	Kennett, Mo.	Feb. 9
Mar. 7	Red Oak, Ia.	Feb. 9
Mar. 15	Elk River, Minn.	Feb. 9

STREETS AND ROADS

Feb. 20	Montesano, Wash.	Feb. 9
Feb. 20	Connecticut	Feb. 9
Feb. 20	Missouri	Feb. 16
Feb. 20	Prescott, Ariz.	Feb. 16
Feb. 21	Columbus, O.	Feb. 16
Feb. 21	Cape May, N. J.	Feb. 2
Feb. 21	Utah	Feb. 2
Feb. 21	Missouri	Feb. 2
Feb. 21	Stockton, Cal.	Feb. 2
Feb. 21	Bessemer, Mich.	Feb. 9
Feb. 21	Ohio	Feb. 9
Feb. 21	Viroqua, Wis.	Feb. 9
Feb. 21	Harlan, Ia.	Feb. 9
Feb. 23	Shelby, N. C.	Feb. 16
Feb. 23	Washington, Ia.	Feb. 16
Feb. 23	Willmar, Minn.	Feb. 9
Feb. 24	Fresno, Cal.	Feb. 16
Feb. 24	New York, N. Y. Adv. Feb. 9 and 16.	Feb. 16
Feb. 24	North Carolina	Feb. 16
Feb. 24	Missouri	Feb. 2
Feb. 24	Ohio	Feb. 9
Feb. 24	New York Adv. Feb. 9 and 16.	Feb. 9
Feb. 24	North Carolina	Feb. 9
Feb. 28	Washington	Jan. 19
Feb. 28	Camp Hill, Pa.	Feb. 9
Feb. 28	Sea Girt, N. J. Adv. Feb. 16.	Feb. 16
Feb. 28	Bluefield, W. Va. Adv. Feb. 9 and 16.	Feb. 9
Feb. 28	Pennsylvania Adv. Feb. 9 and 16.	Feb. 9
Feb. 28	Washington	Feb. 16
Feb. 28	Wichita, Kan.	Feb. 16
Mar. 1	Duluth, Minn.	Jan. 5
Mar. 1	Pennsylvania Adv. Feb. 9 and 16.	Feb. 9
Mar. 1	Worthington, Minn.	Feb. 16
Mar. 1	Delaware Adv. Feb. 16.	Feb. 16
Mar. 6	Dade City, Fla.	Feb. 2
Mar. 6	Minneapolis, Minn.	Feb. 9
Mar. 6	Ontario	Feb. 16
Mar. 6	Salem, N. J. Adv. Feb. 16.	Feb. 16
Mar. 8	Freehold, N. J. Adv. Feb. 16.	Feb. 16
Mar. 8	Mays Landing, N. J. Adv. Feb. 16.	Feb. 16
Mar. 9	Missouri	Feb. 16
Mar. 14	Sheboygan Falls, Wis.	Jan. 26
Mar. 14	Wichita, Kan.	Feb. 16
Apr. 1	Grantfield, Okla.	Feb. 2

INDUSTRIAL WORK

Feb. 24	Columbia, Mo.	Feb. 2
Mar. 1	Champaign, Ill.	Feb. 16

BUILDINGS

Feb. 20	Fremont, Neb.	Feb. 2
Feb. 20	Wayne, Pa. Adv. Jan. 26 to Feb. 16.	Feb. 9
Feb. 20	Larned, Kan.	Feb. 16
Feb. 20	Phila., Pa.	Feb. 2
Feb. 20	West Park, O.	Feb. 2
Feb. 20	Cleveland, O.	Feb. 9
Feb. 20	Ecorse, Mich.	Feb. 16
Feb. 20	Springfield, Mo.	Feb. 9
Feb. 21	Columbia, Mo.	Feb. 9
Feb. 21	Charleston, W. Va.	Feb. 9
Feb. 21	Phila., Pa.	Feb. 2
Feb. 21	Hinton, Ia.	Feb. 2
Feb. 21	Jersey City, N. J.	Feb. 16
Feb. 21	Buffalo Center, Ia.	Feb. 2
Feb. 21	Savanna, Ill.	Feb. 16
Feb. 23	Maryville, Mo.	Feb. 16
Feb. 23	Middletown, O.	Feb. 2
Feb. 24	Monessen, Pa.	Feb. 16
Feb. 24	Whitman, Neb.	Feb. 9
Feb. 25	Champaign, Ill.	Feb. 16
Feb. 25	Tuscola, Ill.	Feb. 16
Feb. 25	Williamsport, Pa.	Feb. 2
Feb. 25	Rockford, Ill.	Jan. 26
Feb. 25	West De Pere, Wis.	Feb. 2
Feb. 25	Shelby, Ia.	Feb. 16
Feb. 25	Sonoma, Cal.	Feb. 9
Feb. 25	Urbana, Ill.	Feb. 16
Feb. 27	Dubuque, Ia.	Feb. 16
Feb. 27	Oakland, Cal.	Feb. 9
Feb. 27	Topeka, Kan.	Feb. 16
Mar. 1	Baltimore, Md. Adv. Feb. 16	Feb. 16
Mar. 1	Cincinnati, O.	Feb. 16
Mar. 1	East Liverpool, O.	Feb. 16
Mar. 1	Indianapolis, Ind.	Feb. 16
Mar. 1	Johnstown, Pa.	Jan. 26
Mar. 1	Milwaukee, Wis.	Feb. 16
Mar. 1	Phila., Pa.	Feb. 9
Mar. 2	Wayne, Va.	Feb. 9
Mar. 3	Kerrville, Tex.	Feb. 9
Mar. 7	Pomona, Cal.	Feb. 16
Mar. 8	Clinton, Ind.	Jan. 26
Mar. 9	Rockville, Ind.	Feb. 16
Mar. 13	Olympia, Wash.	Feb. 16

FEDERAL GOVERNMENT WORK

Feb. 17	Steel Hull—Louisville, Ky. Adv. Jan. 26 to Feb. 16.	Jan. 16
Feb. 20	Kitchen Equipment—Perryville, Md.	Feb. 9
Feb. 23	Dredging—Norfolk, Va.	Jan. 26
Feb. 23	Oil Barges — Galveston, Tex. Adv. Jan. 26 to Feb. 16.	Feb. 2
Feb. 23	Steel Hull — New Orleans, La. Adv. Feb. 2 to 16.	Feb. 2
Feb. 27	Dredging — Providence, R. I. Adv. Feb. 2 to 16.	Feb. 9
Mar. 1	Barracks — Fourth Cliff, Mass.	Feb. 9
Mar. 6	Post Office and Court House —Globe, Ariz.	Feb. 2
Mar. 8	Carriage House — Norfolk, Va.	Feb. 16
Mar. 9	Water Supply Line—Honolulu, H. T.	Jan. 19
Mar. 15	Motor Generator Set, etc.— Hampton Roads, Va.	Feb. 16
Mar. 15	Steam Supply System — San Diego, Cal.	Feb. 16
Mar. 22	Operating and Power Building, etc.—Tatoosh, Wash.	Feb. 16

MISCELLANEOUS

Feb. 20	Lighting System—Waukegan, Ill.	Feb. 16
Feb. 20	Tractor—Audubon, Ia.	Feb. 9
Feb. 21	Expansion Joint Material—Toronto, Ont.	Feb. 16
Feb. 21	Supplies—Hamilton, Ont.	Feb. 9
Feb. 21	Tar, etc.—Trenton, N. J.	Feb. 16
Feb. 23	Road Drags, etc.—Brookings, S. D.	Feb. 16
Feb. 23	Tractor—St. Cloud, Minn.	Jan. 19
Mar. 25	Road Oil—Adrian, Mich. Adv. Feb. 16.	Feb. 16
Feb. 27	Heating and Ventilating Apparatus, etc.—New Brighton, N. Y.	Feb. 16
Mar. 1	Aquarium—San Francisco, Cal.	Feb. 16
Mar. 1	Castings and Asphaltic Cement—Harrisburg, Pa.	Feb. 16

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Va., Danville—Plans to install pump, 5,000,000 gal. per 12 hours. H. K. Linville, Danville, engr.

O., Columbus—See "Streets and Roads."

Wis., Iron Ridge—Having preliminary plans prepared complete waterworks. $25,000. J. Donohue, 628 North 8th St., Sheboygan, engr.

Minn., Minneapolis—Water Dept. making plans 130,000 gal. tower, brick standpipe, $15,000; will install one 1,000 gal. per minute electric driven centrifugal pump, at 31st Ave. and Fillmore St. N. E.; one 1,000 gal. per minute electric driven centrifugal pump at small pump station to be erected at 36th St. and Lake Calhoun.

Neb., Imperial—Frenchman Irrigation Dist., Culbertson, opens bids about March 1, storage reservoir with dam and water valves, here. $125,000. J. L. Kilburn, secy. Hershey & Merick, Brownell Blk., Lincoln, engrs.

Tex., Baird—Feb. 28 to vote on $60,000 bonds waterworks improvements. Address Mayor.

Tex., Mexia—See "Industrial Works."

Tex., Pecos—Feb. 28 to vote on $75,000 bonds for waterworks system. Address Mayor.

Tex., Robstown—Soon takes bids water supply and irrigation system. $300,000. Walton & Arneson, 418 Gunter Bldg., San Antonio, engrs. Noted Dec. 1.

Wash., Seattle—Had plans prepared and probably opens bids early in March Pipe Line 3 in connection with Swan Lake Project, to run from Swan Lake to Volunteer Park reservoir, 17 mi. 66 in. steel riveted, lock bar, forged weld, electric weld steel or creosoted wood pipe. $2,000,000. A. H. Dimock, city engr.

Ont., Ottawa—Plans new mains in various sections of city, $100,000; overland pipe line from present terminus at Champagne Ave. to connect with Queen St. pumping station, $160,000; water meters, $30,000. F. C. Askwith, deputy engr.

BIDS DESIRED

New York—March 2, by Bd. Water Supply, Municipal Bldg., Park Row, Centre and Chambers Sts., New York, furnishing and delivering gate-valves, steel castings and appurtenances for steel pipes of Catskill Aqueduct, f.o.b. at designated localities in Ulster, Orange, Putnam and Westchester Counties. B. F. Einbigier, secy.; adv. this issue.

N. Y., Greenburgh—Feb. 27, by Scarsdale Bd. Water Comrs., Popham and Post Rds., Scarsdale, furnishing and installing 3 centrifugal pumps, motor and gasoline driven, switchboard, wiring and gages, etc., mainly in town of Greenburgh. G. A. Johnson Co., Inc., 150 Nassau St., New York, engrs.; adv. this issue.

N. J., Burlington—Feb. 23, by Bd. Water Comrs., 3,000,000 gal. electric motor driven centrifugal low lift and 2,000,000 gal. electric motor driven centrifugal high lift

Waterworks (Continued)

pumping unit. W. H. Boardman, 426 Walnut St., Phila., engr.

O., Grove City—Feb. 28 furnishing and laying 20,000 ft. mains with necessary valves and hydrants. Jennings-Lawrence Co., 511-12 Hartman Bldg., Columbus, engrs.

Wis., Kilbourn—Feb. 24, by A. Luettgerodt, clk., (1) one 60,000 gal. steel tank on 60 ft. steel tower, one 80,000 gal. steel tank on 60 ft. steel tower, incl. foundation, (2) 80 gal. steel tank 19 x 35 ft. high hemispherical bottom erected on old stone tower. W. G. Kirchoffer, Vroman Blk., Madison, engr.

Wis., Oconomowoc—Feb. 27, 12,000 ft. 6-12 in. c.i. mains, Eddy valves, hydrants. $16,000. J. A. Stemper, City Hall, engr.

Kan., Howard—March 1, by J. A. Jackson, city clk., waterworks and filtration plant, 32,352 lin. ft. 4-8 in. c.i. pipe, 17,130 lin. ft. 2 in. w.i. pipe, 46 hydrants, coagulating and settling basins, filters and clear well, dam in Elk River and low service pumping station, 561 ton 4-6 in. H & S pipe, one 50,000 gal. tank on 100 ft. tower, filter equipment, valves, hydrants, etc. Black & Veatch, Interstate Bldg., Kansas City, Mo., engrs.

Kan., McCracken—Feb. 20, addition to water plant, two 150 ft. wells with 4-6 in. main extensions, valves, hydrants, etc. Ruckel Eng. Co., Hutchinson, engrs. Noted Oct. 13.

Kan., Sabetha—Feb. 21, by M. Hill, city clk., for (1) general construction contract; incl. low service pumping station, incl. 30 yd. rein.-con., 5,000 common brick, 13,495 lin.ft. 6 in. c.i. pipe laid in force main, flow lines from springs, incl. 11,068 lin.ft. 2-6 in. galvanized steel pipe furnished and laid, 4 blowoff valves, 3 air relief valves and manholes, (2) 225 ton 6 in. H & S c.i. pipe, 1,500 lb. special castings, (3) one 150 g.p.m. horizontal motor driven centrifugal pump and one 100 g.p.m. horizontal motor driven centrifugal pump. Black & Veatch, Interstate Bldg., Kansas City, Mo., engrs. Noted Jan. 12.

BIDS RECEIVED

O., Brookpark—Opened bids installing 16,500 ft. 8-12 in. c.i. mains from Gangl Constr. Co., 737 2nd Natl. Bldg., Akron, $52,412; T. Tripoletti, Lorain, $54,280.

CONTRACTS AWARDED

Ga., Atlanta—For complete filter plant at Hemphill station, Sects. 1, 2 and 3, to Case & Cothran, Chandler Bldg.; Sect. 2 sublet to New York Continental Jewel Filtration Co., Flatiron Bldg., New York; Sect. 4 to Nichols Co., Trust Co. Ga. Bldg. Noted Feb. 9.

Wash., Seattle—Bd. Pub. Wks. 7,660 ft. 8 in. c.i. mains in Wilson Ave. et al, to S. A. Moceri, Thompson Bldg., $22,584; 10,906 ft. 8-12 in. c.i. mains in Corson Ave. et al, to A. Tocco & Co., Seattle, $31,394. Noted Feb. 4.

Sewers

PROPOSED WORK

Pa., Phila.—Soon takes bids for rein.-con. main sewers, 4 ft. 6 in. to 6 ft. diam., $150,000; brick branch sewers, 1 ft. 6 in. x 1 ft. 8 in. up to 3 ft. diam., $80,000. C. Frommer, City Hall, engr.

Mich., Sturgis—Plans 13,700 ft. 8, 10 and 12 in. vitr. sewers. $30,000. Will purchase and furnish pipe. A. H. Niles, Sturgis, engr.

Minn., Waseca—Plans disposal plant. $25,000. G. Cox, city engr.

Kan., Salina—Plans 12,000 ft. 10 in. sanitary sewer laterals. W. Theisner, City Hall, engr.

Mo., St. Joseph—April 11 to vote on $800,000 bonds for sewers. W. K. Seitz, city engr.

Tex., El Paso—Making plans 3 sewer lines, $250,000; storm sewers, $125,000. Bonds sold. W. C. Stewart, city engr.

Ark., Paragould—See "Streets and Roads."

Wash., Olympia—See "Streets and Roads."

Ont., Ottawa—Plans Lady Grey Hospital Sewer, $85,000; completing Pinard St., interceptor, incl. relief sewer in St. Andrew St., $18,000. F. C. Askwith, deputy engr.

BIDS DESIRED

N. J., Paterson—March 7, by Passaic Valley Sewerage Comrs., 128 Market St., Newark, sewer connections between certain local sewers and main intercepting sewer, here. J. R. Van Duyne, ch. engr.

N. J., Ridgefield Park—March 7, by Bd. Comrs., Municipal Bldg., sewers and treatment works, etc. M. D. Starker, clk.; adv. this issue.

Ga., Cedartown—Feb. 21, by H. Watkins, mayor and City Council, 6 mi. 8-15 in. sewers. J. C. Walker, clk.; adv. this issue.

Wis., Oconomowoc—Feb. 27, by T. A. Johnson, city clk., storm and sanitary sewers in North Main, Summit, Charles and Armour Sts., 30,000 ft. 6-12 in. vitr. pipe. $26,000. J. A. Stemper, City Hall, engr. Noted Feb. 9.

Minn., New Ulm—Feb. 28, 12,556 lin. ft. of 6-24 in. sewer pipe, 16 manholes, 29 catchbasins, 1,771 lin. ft. c.i. watermains, 1,680 ft. of ¾ in. extra heavy lead pipe, 56 corporation cocks, 56 curb cocks, etc. $60,000. F. D. Minium, city engr. Noted 24, 1921.

Kan., Howard—March 1, by J. A. Jackson, city clk., sewers and disposal plant, 15,278 lin.ft., 8-12 in. vitr. sewers, 41 manholes, Imhoff tank, sprinkling filters, sludge bed, 34,275 lin.ft. 8 in. vitr. lateral sewer, 77 manholes, 25 flushtanks. Black & Veatch, Interstate Bldg., Kansas City, Mo., engrs.

Mo., Chillicothe—March 4, by J. Miller, city aud., laying 12-36 in. vitr. tile sewer in McNally St. $27,000. J. Broaddus, City Hall, engr.

Wyo., Casper—March 6, by City Clerk, 3,5 mi. 8-15 in. vitr. tile sanitary sewer in Dist. 19, Sandbar Dist., $40,000; 2,000 lin. ft. concrete revetment, 18 ft. wide, 90,000 ft. cable, etc., $11,000; 1,000 ft. earth dam, 33 ft. a maximum height. 33,000 cu.yd. excav., $12,000. F. S. Knittle, P. O. Box 1143, Casper, engr.

Cal., Los Angeles—April 10, by Bd. Pub. Wks., City Hall, Arroyo de La Sacatella Storm Sewer, Hollywood Dist. and western part of city. $2,500,000. J. T. Griffin, City Hall Annex, engr. Noted Feb. 2.

BIDS RECEIVED

O., Lakewood (Cleveland, P. O.)—Opened bids 1,500 ft. 45 in. brick sewer in Lakeland Ave., from Gallagher-Burke Constr Co., 1339 Irene Ave., $27,046; J. and E. Kalill, 1200 Bolivar Rd., Cleveland, $27,856.

Mich., Detroit—For (1) Woodward Ave. Arm of Seven Mile Rd. Sewer, (2) Dequindre Ave. Arm of Seven Mile Rd. Sewer, (3) Coon Ave. Arm of Wyoming Ave. Sewer, (4) Joan Rd. Arm of Gratlet Ave. Sewer, (5) Fenelon Ave. Arm. of Lynch Rd. Sewer, (6) Buena Vista Arm of Wyoming Ave. Sewer, (7) Livernois Ave. Arm. of Seven Mile Rd. Sewer, from C. R. Lennane, 2631 Woodward Ave., (1) $31,614, (5) $34,872, (6) $25,090; R. A. Mercier, 6 Campau Bldg., (1) $32,811, (2) $121,346, (3) $28,752, (7) $82,086; W. Blanck & Co., 827 Ford Bldg., (1) $32,832, (2) $104,430, (3) $26,973, (4) $48,876, (5) $30,682, (6) $24,021; J. Winterbottom, 400 Penobscot Bldg., (2) $117,337; J. Porath, 34 McGraw Bldg., (3) $29,037, (5) $37,773; J. Connelly, 610 Lincoln Bldg., (4) $81,196; J. A. Mercier, 216 Hammond Bldg., (4) $58,492; G. R. Cooke, 1260 Penobscot Bldg., (6) $23,086, (7) $83,312; C. M. Davis, 400 Penobscot Bldg., (7) $72,782. Noted Jan. 26.

CONTRACTS AWARDED

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., reconstructing sewer in 14th St., etc., to P. J. Kearns Contg. Co., 2306 Creston Ave., $36,709. Noted Jan. 26.

Tex., Dallas—Storm and sanitary sewer in Pacific Ave. (main and laterals) to Smith Bros., Dallas, $271,625. Noted Jan. 19.

Waste Disposal

PROPOSED WORK

Mo., St. Louis—Passed ordinance for 2 incinerators with capacities of 70-80 ton each in 14 hrs., at temperatures about 1,700 degrees, and stacks 125 ft. high, 1 on Chouteau Ave. and other on Kings Highway and McRae Ave. $140,000. C. H. Fisk, dir. Dept. Streets and Sewers.

Tex., El Paso—Plans prepared disposal plant, incl. twenty 27 x 70 x 20 ft. concrete tanks. $125,000. H. O. Duerr, Mills Bldg., engr.

Tex., Mexia—See "Industrial Works."

CONTRACTS AWARDED

La., New Orleans—For garbage incinerator; piling foundation and buildings, to G. E. and E. S. Reimer, 307 Weis Bldg., $44,000; chimney to M. W. Kellogg, 90 West St., New York, $5,200; incinerator equipment, to Decarie Equipment Co., 817 McKnight Bldg., Minneapolis, Minn., $90,450.

Bridges

PROPOSED WORK

N. J., Plainfield—Bd. Freeholders Union Co. (Elizabeth) and Somerset Co. (Somerville) plan bridge over Green Brook between here and North Plainfield. $40,000. J. L. Bauer, Elizabeth, and H. C. Van Emburgh, Somerville, engrs.

Ind., Indianapolis—City and Comrs. Marion Co. plan rein.-con., stone and steel bridge over Fall Creek on Delaware St. $125,000. J. J. Griffith, co. engr.

Wis., Wilwaukee—See "Streets and Roads."

Kan., Mound City—See "Streets and Roads."

Mo., St. Joseph—April 11 to vote on $125,000 bonds for steel and concrete viaduct. H. K. Seitz, city engr.

Tex., Colorado—Mitchell Co. preliminary estimates made, 330 ft. bridge over Colorado River on Highway 1,150 ft. steel span, 44 ft. concrete floor, two 60 ft. spans and 50 ft. span approach, rein.-con. and steel. $40,000. D. E. H. Manigault, El Paso, state div. engr.

BIDS DESIRED

Ind., Greenfield—March 7, by Bd. Comrs. Hancock Co., repairing 4 bridges, wood block floors; repairing 1 flat top concrete bridge; constructing 1 flat top concrete bridge; paving, grading and draining Floyd Helms et al Rd. C. Boone, co. surv.

Wis., Holmen—Feb. 23, by La Crosse Co. State Road and Bridge Comm., Court House, La Crosse, rein.-con. deck girder bridge, three 40 ft. spans, 24 ft. roadway, two 5 ft. sidewalks, etc., here. W. C. Buetow, bridge engr.

Missouri—Feb. 20, by State Hy. Dept. at div. office Houston, 5 rein.-con. bridges on Federal Aid Project 90, Sect. B, Texas Co. $33,884. A. Graham, Jefferson City, state highway engr. Noted Feb. 2, under "Streets and Roads."

CONTRACTS AWARDED

Kan., Lawrence—Douglas Co., Thatcher Bridge, 108 ft. long, steel, concrete abutments and piers, to St. Joseph Structural Steel Co., 9th and Atchison Sts., St. Joseph, Mo., $15,434. Noted Jan. 26.

Ore., Cascade Locks—Bridge of Gods Corp., Chamber of Commerce Bldg., Portland, piers and anchors for 1,355 ft. concrete inverted arch bridge, over Columbia River, near here, to Interstate Constr. Co., Chamber of Commerce Bldg., Portland, $117,000. Sublet piers on Oregon side to Young-McDonald Co. Noted Jan. 12.

Dams

PROPOSED WORK

Neb., Imperial—See "Waterworks."

BIDS DESIRED

Wyo., Casper—See "Sewers."

Pa., West Chester—March 1, by Boro Council, concrete and earth dam across Chester Creek, near Milltown. Franklin & Co., 906-907 Crozer Bldg., Phila., consult. engrs.; adv. this issue.

Railways

PROPOSED WORK

Ontario—Toronto Transportation Comn., Ryrie Bldg., Toronto, plans to expend $6,500,000 on trackwork as follows: 40 new double track intersections, some of which will be equipped with automatic electric switches, streets included are King St. from Spadina Ave. to Sherbourne St., Queen St. from Ossington to Yonge Sts., Bloor St. from Landsdowne to Avenue Rds., and from Yonge to Church Sts., Dupont St. from Avenue Rd. to Kendal St., Dover Court from College to North End Sts., Dufferin St. from Exhibition to Queen Sts., Wellington St. from Spadina Ave. to Sherbourne St., and Church St., also new east track on Spadina Ave., double tracks on Carlaw and Pape Aves., from Sunnyside Ave. to Humber on Lake Shore Rd., also Kingston Rd. and North Yonge St., incl. trolleys, poles, etc.; for $3,500,000 for new street cars; $2,750,000 for new shops, car barns, and equipment. J. B. Carswell, Ryrie Bldg., Toronto, engr.

Wash., Tacoma — See "Streets and Roads."

Excavation and Dredging

PROPOSED WORK

Ia., Red Oak—Montgomery Co. plans drainage ditch along Seven Mile and Nodaway Creeks. $30,000. C. Nimrod, aud.

Ore., Tumalo—Tumalo Irrigation Dist. voted $550,000 bonds to extend present canal from Tumalo Creek about 5 mi. to Deschutes River, 250 sec. ft. capacity, also storage of 30,000 acre ft. of water at some point on upper Deschutes River. J. H. Lewis, 805 Chamber of Commerce Bldg., Portland, engr.

BIDS DESIRED

Minn., Fairmont—Feb. 23, by Martin Co. Judicial Ditch 24, 14,570 ft. 10-24 in. and 2,000 ft. 14 in. tile, $16,380; Ditch 41, 13,450 ft. 6-20 in. tile, 500 ft. open work, $9,591; Ditch 62, 36,635 ft. 6-20 in. tile

Excavation and Dredging (Continued)

$16,999; Ditch 100, 85,499 ft. 6-40 in. tile, 1,200 ft. open work, etc., $90,721; Ditch 103, 26,955 ft. 6-32 in. tile, 550 ft. open work, etc., $19,479. Noted Dec. 15.

CONTRACTS AWARDED

Wis., Milwaukee—Phoenix Knitting Wks., 208 Bway., excavating and piling for 7 story, 120 x 180 ft., dye house and finishing plant, Buffalo and Milwaukee Sts., to Whitney Constr. Co., 216 West Water St. Noted Feb. 2, under buildings.

Streets and Roads

PROPOSED WORK

Va., Charlotte Court House—Bd. Supervs. Charlotte Co. authorized $230,000 bond issue paving streets and roads throughout county, concrete. H. B. Chermside, clk.

Va., Portsmouth—Norfolk Co. will sell $250,000 bonds March 14 for road and bridge construction. G. T. Gwathmey, clk.

Ohio—Dept. Highways and Pub. Wks., Columbus, plans improving 12-14 mi. Cleveland-Columbus and Cincinnati Highway, near Sunbury, Delaware and Knox Counties. L. C. Herrick, dir. of highways.

Ohio—Dept. Highways and Public Wks., Columbus, rejected bids opened Jan. 27, grading, bridging and paving 3,359 mi. Bryan-Wauseon Rd., Fulton Co., rein.-con. L. C. Herrick, dir. highways. Noted Feb. 2.

O., Columbus—Franklin Co. making plans and soon takes bids grading, bridging and paving 2.91 mi. Courtright Rd. in Madison and Truro Twps., $60,000; 5.34 mi. Hayes Rd. in Hamilton and Madison Twps., $104,000; 11 mi. Alkire Rd., Prairie Twp., $220,000; 2.9 mi. Stygler Rd., Mifflin Twp., $61,000. All above with waterbound macadam. C. C. Lattimer, Court House engr.

O., Columbus—Soon takes bids grading, laying water mains and paving 2 mi. Parsons Ave., asphalt, $163,948, brick, $172,818; 2,568 ft. Goodale St. from High to Henry Sts., asphalt, $42,730; 8,000 ft. Neil Ave. from Goodale St. to 11th Ave., brick, $143,076, asphalt, $134,861, wood block, $258,861; 5,900 ft. 3rd St. from Naghten St. to Livingston Ave., asphalt, $134,727, wood block, $210,752. R. H. Simpson, City Hall, engr.

O., Lakewood (Cleveland, P. O.)—Plans curbing, grading and paving 32 streets. $654,000. E. A. Fisher, Lakewood, engr.

O., Marietta—Plans paving Kenwood, Ingleside, Woodland and Wells Sts., vitr. brick on concrete or sand and gravel base. $40,000. G. L. Haenn, Marietta, engr.

Mich., Zeeland—Plans prepared paving various streets, $6,331 cu.yd. excav., 15,775 sq.yd. paving, various types, 11,326 lin. ft. concrete curbing. $50,000. R. E. Harrison, 351 Summit Cherry Bldg., Toledo, O., engr.

Wis., Milwaukee—Milwaukee Co. making plans extending 3 mi. Blue Mound Rd. west from Hawley Rd., Project 268, 42,000 sq. yd. concrete surfacing, 5 culverts, 10 culverts to be lengthened, 1 bridge to be lengthened; 4.04 mi. Brown Deer-Granville Rd. from Brown Deer Rd. to Waukesha Co. line, 51,500 sq. yd. concrete surfacing, 400 cu. yd. concrete in culverts, 24,000 cu. yd. grading; 5.7 mi. Center Rd. from West Allis south to junction with State Highway 36, 60,500 sq. yd. concrete surfacing, 300 cu. yd. concrete in culverts, one 60 ft. steel span. Wisconsin Hy. Comn., Madison, and Div. Office, 444 Milwaukee St., Milwaukee, engrs.

Minn., Preston—Fillmore Co. making plans and will open bids in March or April, grading 6 mi. Rd. 1, out of Preston; 7 mi. Rd. 3, out of Lanesboro through Carrolton; 7 mi. Rd. 5, Spring Valley and Sumner. $80,000. W. Dunbar, co. engr.

Kan., Mound City—Linn Co. soon takes bids grading 25 mi. Lacygne-Pleasanton-Prescott Rd., Federal Aid Project 109, 368,000 cu.yd. earth excav., also 1,110 lin.ft. concrete bridges, one 150 ft. steel span. $300,000. C. E. Kenney, Mound City, engr.

Kan., Salina—Plans grading and paving 40,000 sq.yd. various streets, brick, asphaltic concrete, asphaltic macadam or one course concrete. W. Theisner, Salina, engr.

Wyoming—State Hy. Dept., Cheyenne, will probably open bids in April, grading 28.3 mi. Yellowstone Highway through Wind River Canyon, in Fremont and Hot Springs Counties. $409,200.

Missouri—State Hy. Dept., Jefferson City, plans 2.444 mi. road from La Belle north and south, State Aid Project 20.128, Lewis Co., 12,107 cu.yd. earth excav., 6,304 cu.yd. borrow and 187.7 cu.yd. concrete masonry, etc., $25,000; 7.115 mi. road from Pollock to Milan State Aid Project 20.139, Sullivan Co., 56,772 cu.yd. earth excav. and 59.8 cu.yd. concrete masonry, etc., $29,071. A. Cobham, state highway engr.

Ark., Harrisburg — Bay Rd. and St. Francis River Rd. Impvt. Dist. of Poinsett Co. plans to gravel 16 mi. road and improve bridges. $125,000. W. R. Heagler & Sons, Paragould, engrs.

Ark., Paragould—Street Impvt. Dist. No. 3 plans to curb, gutter, pave and build storm sewers in Pruett, Poplar, Hunt, 3rd, 4th and 6th Sts. $80,000. W. R. Heagler & Sons, Paragould, engrs.

Tex., Center—Shelby Co. making plans surfacing 12.7 mi. State Highway 22, 139,225 cu.yd. gravel. $45,500. T. H. Dillon, co. engr.

Tex., El Paso—Soon takes bids paving 10 mi. various streets, asphalt, street intersections to be paid for from $125,000 bond issue, the remainder from assessments against property fronting on streets; also making plans grading and extending various streets, $90,000. W. C. Stewart, city engr.

Tex., Hondo—Medina Co. takes bids about April 15 hard surfacing 40 mi. roads. $600,000. Walton & Arneson, 418 Gunter Bldg., San Antonio, engrs. Noted Jan. 5.

Tex., Lufkin—Angelina Co. preliminary estimates made grading, gravel surfacing and bridging 17 mi. State Highway 37 from here to Cherokee Co. line, 48,000 cu.yd. borrow and 51,000 cu.yd. roadway excav., 1,090 cu.yd. contrate, 35,500 cu.yd. gravel surfacing, 91,700 lb. reinforcing. $226,000. G. R. Abney, co. engr.

Tex., Palo Pinto—Palo Pinto Co. having preliminary estimates made grading, gravel surfacing, bituminous topping and bridging 10 mi. north branch Highway 1, Metcalf Cap to county line, 30,000 cu.yd. borrow, 70,000 cu.yd. roadway and 8,000 cu.yd. rock excav., 105,600 sq.yd. bituminous macadam, 925 cu.yd. concrete, 87,500 lb. reinforcing, 35,200 cu.yd. gravel, $280,000; grading and crushed stone surfacing 6.5 mi. State Highway 25, 20,000 cu.yd. borrow, 40,000 cu.yd. roadway and 1,300 cu.yd. rock excav., 600 cu.yd. concrete, 50,000 lb. reinforcing, 22,800 cu.yd. crushed stone, $133,460. G. W. Courter, Marlin, co. engr.

Wash., Olympia—Plans 5 improvement projects incl. paving and laying sewers, etc. $350,000. R. Wood, city engr.

Wash., Seattle—King Co. plans to expend $701,500 on highway construction, repair and maintenance during 1922. Plans include grading and graveling 1.4 mi. Auburn-Pierce Co. Rd., $20,000; paving 4.5 mi. Orillia-Kent Rd., $135,000; 3.2 mi. Newport-Bellevue Rd., $96,000; 5 mi. Sunset Highway between Issaquah and Preston, $152,000. T. S. Beeming, co. engr.

Wash., Seattle—Plans paving and retracking 30 blocks 1st Ave. and 1st Ave. S. $702,172. A. H. Dimock, city engr.

Wash., Tacoma—Plans repaving 3 in. bitulithic top on present brick pavement and relaying street car tracks on Bway. from 7th to 17th Sts. $175,000. J. C. Manley, city engr.

Cal., San Francisco—Bd. Pub. Wks. rejected bids opened Jan. 18, constructing 1,598 lin.ft. concrete curbs and 3,540 sq. ft. asphaltic concrete pavement in Mission Terrace. Work will be readvertised. M. M. O'Shaughnessy, city engr. Noted Jan. 26.

Cal., Sonora—Plans paving portions Washington St., 16 and 20 ft.; Stockton St., 16 ft.; Bradford St., 16 ft., all foregoing 5 in. concrete; remainder of streets included in program to be paved with 1 in. asphalt over present pavement. $70,000. C. W. Terry, city engr. Noted Jan. 12.

Ont., Ottawa—Plans repaving Wellington St. from Parkdale Ave. to Garland St., $39,363; Nicholas St. from Rideau St. to Laurier Ave. E., $15,475, both asphalt. F. C. Askwith, deputy engr.

Ont., Toronto—Toronto and York Good Rds. Comn., 57 Adelaide St. E., having surveys made and takes bids in spring paving Yonge St. through Richmond Hill, $16,500, widening and resurfacing Kennedy Rd. at Unionville, $58,000, 2 mi. waterbound macadam pavement on Kennedy Rd. north from Cashel, $33,000, ¾ mi. waterbound macadam east of Stouffville, $12,000, diversion through Ballantrae swamp, $11,000, grading and graveling 8th concession, Witchurch, $4,000, widening and resurfacing Vaughan Rd., $31,900, extending waterbound macadam on Vaughan Rd. in Vaughan, $38,000, paving Weston Rd. through Mt. Denis, $23,000, waterbound macadam from Kleinburg north on Weston Rd., $38,000, widening and resurfacing Don Mills Rd. from Pape Ave. to Taylor Hill, $19,400, extending waterbound macadam on Don Mills Rd., $24,000, 2 mi. waterbound macadam, Malton Rd., $48,000, Malton Rd., Eagle St. to the Humber, $8,500, ¾ mi. waterbound macadam on King Rd. north from King City, $10,960, 3¾ mi. concrete pavement on Sutton Rd., $120,000, 2 mi. waterbound macadam north from Sharon, $42,000, 2 mi. waterbound macadam on Lloydtown Rd., $38,000, 2 mi. gravel from Kettleby west, $8,000, widening and surfacing Wellington St. and Vandorf Rd., $23,000, York Rd. concrete base, hot top $40,000, 1 mi. waterbound macadam west of O'Sullivans Corners, $22,000, 2 mi. waterbound macadam Browns Rd., $42,000, ¾ mi. Scarlett Rd. and St. Clair Ave., $15,000; also several bridges and culverts. Total $850,000. E. A. James, 57 Adelaide St. E., engr.

BIDS DESIRED

N. Y., New York—Feb. 24, by J. Miller, pres. Manhattan Boro, widening and paving roadway of 32nd St. between existing curb lines from 5th Ave. to Bway., sheet asphalt on concrete; repaving roadway of 5th Ave. from 98th to 110th Sts., sheet asphalt on existing concrete; roadway of Chambers St. (curb to rail) from Greenwich to West Sts., 4 in. granite block on existing concrete; roadway of 3rd St. (curb to rail) from West Bway. to 6th Ave., granite block on concrete.

N. J., Freehold—March 8, by Bd. Freeholders Monmouth Co., Court House, reconstructing State Highway Route 4, Sect. 6, Etontown to West Long Branch, sheet asphalt on concrete. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr.; adv. this issue.

N. J., Mays Landing—March 8, by Bd. Freeholders Atlantic Co., Guarantee Trust Bldg., Atlantic City, reconstructing Smithville-Mullica River Sect. 9) of Ocean Highway (State Highway Sect. Route 4) in Galloway Twp. and Port Republic, Warrenite bitulithic on 6 in. concrete. A. H. Nelson, 636 Guarantee Trust Bldg., Atlantic City, co. engr.; adv. this issue.

N. J., Salem—March 6, by Salem Co., reconstructing Sect. 10, State Highway Route 6, Quinton-Marlboro, gravel; Sect. 11 State Highway Route 6, Salem-Quinton, rein.-con. H. B. Keasbey, co. engr.; adv. this issue.

N. J., Sea Girt—Feb. 28, by W. H. Cranmer, mayor and Boro Council reconstructing 1st Ave., The Crescent, 2nd Ave. and Washington Blvd. from Wreck Pond bridge to Parker Ave., reinforced cement concrete. Sincerbeaux & Moore, Asbury Park Trust Co. Bldg., Asbury Park, civil engrs.; adv. this issue.

Delaware—March 1, by State Hy. Dept., Dover, improving 3.74 mi. Woodside-Camden Rd., Contr. 30; 4.51 mi. St. George-Tybout's Corner Rd., Contr. 33-A; 1-mi. road through Camden, Contr. 39; 1.189 mi. road through Blades and Seaford, Contr. 42; 0.811 mi. road through Bridgeville, Contr. 47; 5.76 mi. Felton-Frederica Rd., Contr. CK-4; 4.278 mi. Cheswold-Leipsic Rd., Contr. CK-1; 3.048 mi. Rising Sun-Wyoming Rd., Contr. CK-8; 1.901 mi. Asbury Church-Barr's Corner Rd., Contr. CS-16; adv. this issue.

Md., Baltimore—March 1 by Bd. of Awards, c/o City Register, grading, curbing and paving with sheet asphalt, cement concrete and vitr. block, streets listed in Constrs. 208-OC, A, 209-OCNA, 210-OANAN and 211-NA. H. G. Perring, ch. engr.; adv. this issue.

North Carolina—Feb. 24, by State Hy. Comn., Raleigh, improving 2.4 mi. road North Carolina Project 174, Pasquotank Co., 20 acres clearing, 2,700 cu.yd. common and 44,800 cu.yd. borrow excav., 370 cu.yd. concrete, 26,950 lb. reinforcing, 111,550 lb. structural steel, $42,000; 7.14 mi. North Carolina Project 566, Moore Co., 15 acres clearing, 53,515 cu.yd. common excav., 900 ft. 15-30 in. concrete pipe, 16,600 cu.yd. topsoil, 842 cu.yd. concrete, 113,342 lb. reinforcing, 428 sq.yd. asphalt wearing surface, $48,000. C. M. Upham, Raleigh, engr.

N. C., Shelby—Feb. 23, 88,000 sq.yd. sheet asphalt, bitulithic, plain or rein.-con., natural asphalt or asphaltic concrete. Mees & Mees, Charlotte, engrs. Noted Oct. 27.

Ky., Winchester—Feb. 24, by Bd. Comrs. improving various streets, 35,000 sq.yd. asphalt, vitr. brick or concrete. V. P. Lary, clk.; adv. this issue.

O., Columbus—Feb. 21, by W. H. Duffy, dir. Pub. Serv., grading, laying water mains, sewer connections, curbing and paving alley west of Fairwood Ave., from alley north of Main St. to the Second alley north of Main St., 555 ft. long, 16 ft., concrete, $3,855, brick, $4,889; alley north of Fair Ave. from Champion to Sherman Aves., 380 ft. long, 20 ft., brick, $4,315, concrete, $3,415; alley west of 4th St. from 19th to 20th Aves., 295 ft. long, 16 ft., brick, $2,939, concrete, $2,024; alley north of Oeshler Ave. from Blackberry alley to Brick St., 575 ft. long, 17.8 ft., concrete, $4,279, brick, $5,154; alley west of Linwood Ave. from Fulton to Cole Sts., 347 ft. long, 20 ft. concrete, $2,686, brick, $3,441; 17th Ave. from Indianola Ave. to Summit St., 736 ft. long, 20 ft., macadam, $7,847; Northmoor Pl. from High St. to Olentangy Blvd., 2,254 ft. long, 26 ft., asphalt, $58,975; Nashoba Ave. from Doren to Sullivant Aves., 1,323 ft. long, 24 ft., asphalt, $23,299. R. H. Simpson, city engr.

Streets and Roads (Continued)

Ind., Greenfield—See "Bridges."

Ia., Washington—Feb. 23, paving 27 blocks. $100,000. S. J. Kellogg, clk. Noted Sept. 8.

Minn., Worthington—March 1 by Nobles Co., clearing and grading Worthington-Round Lake Rd., 76,000 cu.yd. excav., 151,000 cu.yd. overhaul, 10,000 ft. 6 in. drain tile, 648 ft. 15-24 in. corrugated culverts, $30,000. N. S. Thayer, co. engr.

Kan., Wichita—Feb. 28, curbing, guttering and paving with asphaltic concrete 3 blocks Wichita St., 1 block Elm St., 1 block 1st, from Estelle to Volutia Sts., and 8 blocks 1st St. from New York to Spruce Sts.; asphalt 1 block Hydraulic Ave.; concrete 4 blocks Kellogg St., 1 block Harrison Ave., ½ block Laura Ave.; brick ½ blocks Central Ave. from Meade to Washington Sts., and 8 blocks Central Ave. from Washington to Hydraulic Sts. $135,000. P. L. Brockway, city engr. Noted Dec. 29.

Kan., Wichita—March 14, by Comrs. Sedgwick Co., paving 20.797 mi. Cannon Ball Trail, 198,886 sq.yd. brick or concrete. $575,000. M. Roseberry, Wichita, co. engr.

Missouri—Feb. 20, by State Hy. Dept. at div. office, Houston, 6.875 mi. road from Cabool northeastward, Federal Aid Project 90, Sect. B, Texas Co. $50,665. A. Graham, Jefferson City, state highway engr. Noted Feb. 2.

Missouri—March 9, by State Hy. Dept., Jefferson City, 4.49 mi. road near Maryville, Nodaway Co. $41,174. A. C. Lingley, Ballinger Bldg., St. Joseph, state div. engr. Noted Dec. 29.

Ariz., Prescott—Feb. 20, Comrs. Yavapai Co., 13 mi. Kirkland-Yava Rd. and 13 mi. Black Canyon-Camp Verde Rd.

Washington—Feb. 28, by State Hy. Dept., Olympia, clearing and grading 2.9 mi. Pacific Highway between Allen and Burlington, Skagit Co.; clearing, grading and surfacing 8.3 mi. Central Washington Highway between Paha and Ritzville, Adams Co., and 9.7 mi. Inland Empire Highway from Dodge to Pomeroy, Garfield Co., crushed rock; grading and paving 3.5 mi. National Park Highway from Ethel westward, Lewis Co., 1 course concrete; 0.35 mi. Pacific Highway between Renton and Earlington, King Co., concrete. J. Allen, state highway engr.

Cal., Fresno—Feb. 24, by Supervs. Fresno Co. 5.2 mi. Centerville-Dunlop Rd., 7,040 cu.yd. grading, 14,350 ton gravel; paving in Liberty Cemetery, 10,700 sq.ft. 1½ in. asphalt on 2½ in. asphaltic concrete and 1,655 sq.ft. 4 in. macadam walks. C. P. Jensen, surv.

Ontario—March 6, by W. A. McLean, deputy minister of Dept. Pub. Highways, Parliament Bldgs., Toronto, for followinig work; pavements, Contrs. 559, 603 and 605-611 inclusive; asphaltic concrete pavements, Contrs. 613-616 inclusive; bituminous penetration, Contrs. 617-620 inclusive; macadam roadway, Contr. 622; macadam base course, Contrs. 624, 627-630 inclusive; concrete culverts Constrs. 133, 475-480, 484-487, 492-496, 499, 501-505, 508-511, 513, 514, 517-541 inclusive; surface treatment of macadam roads, Contrs. 570-576 and 578-581 inclusive; grading, Contrs. 647-650 and 700-763 inclusive, 642, 644, 308. Total $4,000,000. G. Hogarth, ch. engr. Noted Dec. 29.

BIDS RECEIVED

N. Y., New York—Park Bd. at office Dept. Parks, Municipal Bldg., opened bids paving, setting and resetting curbstones and otherwise improving public driveway between 155th and 166th Sts., from C. D. Beckwith, Inc., 2875 Bway., $70,704; Asphalt Constr. Co., 208 Bway., $71,662; Uvalde Asphalt Paving Co., 1 Bway., $80,610. Noted Feb. 2.

Va., Norfolk—C. E. Ashburner, city mgr., opened bids Feb. 6 paving portions of Olney Rd., Lexington and Starke Sts., Colley, Newport and Monticello Aves., (1) 54,640 sq.yd. asphalt on 6 in. base, (2) 24,098 sq.yd. asphalt on 5 in. base, (3) 17,010 ft. granite curb, (4) 3,395 ft. combined curb and gutter, (5) 10,992 ft. old curb reset, from F. J. McGuire, Paul-Gale-Greenwood Bldg., (1) $2.67, (2) $2.47, (3) $0.90, (4) $1, (5) $0.15, etc., total $238,210; Atlantic Bitulithic Co., Norfolk, (1) $2.86, (2) $2.66, (3) $1, (4) $1, (5) $0.12, etc., total $253,965; R. G. Lassiter & Co., Arcade Bldg., (1) $2.87, (2) $2.70, (3) $1, (4) $1.10, (5) $0.50, etc., total $262,252. Noted Jan. 26.

North Carolina—For improving (1) 15.18 mi. Project 195, Washington Co., (a) grading, draining and topsoiling, (b) bridges and culverts, (2) 2.4 mi. Project 174, Pasquotank and Camden Counties, (3) 14.35 mi. Project 185, Pitt Co., (4) 3.44 mi. Project 313, Brunswick Co., (5) 15.82 mi. Project 314, Brunswick Co., (6) 9.95 mi. Project 364-A, Onslow Co., (7) 3.77 mi. Project 526, Davidson Co., (8) 15 mi. Project 125, Edgecombe Co., from N. L. Teen, Durham, (1a) $35,970, (1b) $23,365, (5a) $93,902; B. J. Boyles, Wilson, (1b) $21,115; L. M. Lee & Co., Emporia, Va., (1a) $37,828; J. A. Marrow Clarksville, Va., (1a) $43,451, (3a) $25,270, (3b) $2,131; Gibson Constr. Co., Knoxville, Tenn., (1b) $24,716, (8a) $382,350; Porter & Peck, Greenville, (2a) $23,681, (3b) $2,323; W. D. Murray-Sadler Co., Norfolk, Va., (2b) $17,539; Jamison Bros., High Point, (2a) $27,115; Gordon & Ward, Elizabeth City (2b) $21,134; C. W. Lacy, Wilmington, N. C., (2a) $28,250, (2b) $23,173, (4b) $11,792, (4a) $109,826, (5a) $101,611, (5b) $20,941; J. P. Dicus, Bethel, (3a) $26,131; W. W. Tuck & Sons, Virgilina, Va., (3a) $26,212; J. D. Harvey Co., Memphis, Tenn., (3b) $2,399, (5b) $20,761; Southern Willite Paving Co., Richmond, Va., (4a) $101,263; Roanoke Iron & Bridge Co., Roanoke, Va., (4b) $9,663; Porter & Boyd, Charlotte, (4b) $11,192, (4a) $116,812; Hagedorn Constr. Co., Winston-Salem, (5a) $79,316, (5b) $17,133, (6a) $56,425, (6b) $7,255, (7a) $111,002, (8b) $16,021; R. E. Martin, Mountain City, Pa., (6b) $5,094, (6a) $58,560; Powers & Thompson, Willard, (6b) $7,132, (6a) $62,298; Heilig & Sherrill, Winston-Salem, (7b) $7,593; R. G. Lassiter & Co., Raleigh, (7a) $115,602, (8a) $371,650; J. L. Brinkley, Thomasville, (7b) $8,779; G. R. Martin, Salisbury, (7a) $117,533; Beish & Co., North Wilkesboro, (7b) $9,417; Von Glahn & Talbott, Spartanburg, S. C., (8b) $16,059; McDougal Constr. Co., Atlanta, Ga., (8a) $415,186; J. L. McGehe Constr. Co., Tarboro, (8b) $16,319. Noted Jan. 19.

Fla., Sebring—Opened bids paving and curbing 43,000 sq.yd. (1) sheet asphalt or asphaltic concrete, (2) cement concrete, (a) stone, (b) rock, from Stidham & Hughes, Lakeland, (1a) $112,982, (1b) $108,252; McDonald Constr. Co., Lakeland, (1a) $113,310, (1b) $113,310; F. W. Long & Co., Stockton St., Jacksonville, (1a) $123,320, (1b) $112,507, (2) $141,764.

O., Cleveland—Opened bids grading, curbing and paving (1) Forest Ave. from East 33rd to East 34th Sts., (2) West 140th St. from Ashwood to Abell Aves., (3) East 124th St. from Buckingham to Woodland Aves., (4) Paul Ave. from Murray Hill to Random Rds., (5) Calvin Court from West 17th St. to West 21st Pl., (6) Stewart Ave., from East 90th to East 93rd Sts., (7) West 44th Pl. from Detroit Ave. to Buckley Blvd., (1-7 inclusive) involve 1,230 lin. ft. curb and gutter, 1,520 sq.yd. asphalt and 67,330 sq.yd. vitr. brick on concrete, (8) Paxton Rd. from Barrington to Arlington Aves., (9) Colonial Court from Woodhill Rd. to Frank Ave., (10) East 114th St. from Woodland to Hulda Aves. (11) Joan Ave. from West 105th St. to Lorain Ave., (12) Helena Ave. from East 105th St. to Parkwood Dr., (13) Vineyard Ave. from Warner to Turney Rds., (8-13 inclusive) involve 12,633 lin.ft. curb and gutter, 5,243 sq.yd. asphalt and 149,685 sq.yd. vitr. brick on concrete, from Rieley Bros., The Arcade, (1) $2,700, (2) $12,741; A. M. Pejsa, Euclid Heights Blvd., Cleveland Heights, (1) $2,782, (2) $13,204, (3) $3,731, (10) $9,983; Bentley Bros., 1836 Euclid Ave., (3) $3,770, (4) $5,399, (9) $4,914; Cleveland Trinidad Paving Co., The Arcade, (4) asphalt $5,004, (7) asphalt $2,850, (8) asphalt $10,222, (11) asphalt $12,608; Roehl Bros., West 25th St. and Clark Ave., (5) $3,459, (11) brick $14,448; Freshwater Constr. Co., Natl. Bldg., (5) $3,566, (7) $3,258; H. G. Herring, c/o Pavers Exch., Society for Savings Bldg., (6) $6,645, (8) brick $12,635; River Constr. Co., Schofield Bldg., (6) $6,787, (9) $4,636, (10) $9,948; Garland Bros., c/o Pavers Exch., Society for Savings Bldg., (12) $10,877; Fisher & Williams, Lorain Rd., West Park, (12) $10,984, (13) $33,535; Enterprise Paving & Constr. Co., 8444 Bway., (13) $33,769. Noted Jan. 26.

O., Cleveland—Opened bids grading, curbing and paving (1) Aspinwall Ave. from East 152nd to East 154th Sts., (2) Oakwood Ave, from East 71st to East 72nd Sts., (3) East 160th St. from Holmes Ave. to Saranac Rd., (4) Fruit Ave. from West 9th to West 10th Sts., (5) Tampa Ave. from West 30th to West 35th Sts., (1-5 inclusive) involve 6,490 lin. ft. curb and gutter, 3,880 cu.yd. earth excav., 4,766 sq.yd. asphalt, 87,240 sq. ft. vitr. brick on 6 in. concrete, (6) Aetna Rd. from East 78th to East 82nd Sts., (7) Natchez Ave. from West 30th to West 35th Sts., (8) Shale Ave. from Woodhill Rd. to East 110th St., (9) Rosewood Ave. from Turney to Warner Rds., (10) East 67th St. from Worley to Collier Aves., (6-10 inclusive) involve 13,190 lin. ft. curb and gutter, 10,050 cu.yd. earth excav., 7,633 sq.yd. asphalt and 170,060 sq. ft. vitr. brick on 6 in. concrete, from Cleveland Trinided Paving Co., The Arcade, (1) asphalt, $4,568, (5) $17,678, (9) asphalt, $33,955; Gould & Maybach, 823 East 150th St., (1) brick, $4,958; Rieley Bros., The Arcade, (2) $5,075; A. M. Pejsa, E... Heights Blvd., Cleveland Heights, ... $5,088; Baldwin Bros., 4500 Euclid ... (3) $20,448, (5) $16,299, (6) $14,156, ... $4,943; Roehl Bros., West 25th St. ... Clark Ave., (4) $4,483, (5) $15,877, ... $14,539; Freshwater Constr. Co., ... Bldg., (4) $4,865, (7) $15,032; Bentley Bros., 1836 Euclid Ave., (6) $14,632, ... $32,765; E. Gedney, Addison Rd., (8) ... 073; Fisher & Williams, Lorain Rd., ... Park, (9) brick, $32,540; Enterprise Paving & Constr. Co., 8444 Bway., (10) $...

Tex., Laredo—Webb Co. scarifying, reshaping, gravel surfacing and bituminous topping 8 mi. State Highways 2 and 12, 75,111 sq.yd. bituminous macadam, scarifying and reshaping 309 sta., 4,194 cu.yd. gravel, from Haden & Austin, 727 Kress Bldg., Houston, crushed stone and asphalt, $48,434; Uvalde Rock Asphalt Co., Swearingen Bldg., San Antonio, rock asphalt $66,594; E. E. Peterman, Laredo, crushed stone and asphalt, $67,519.

California—State Hy. Dept., Sacramento, opened bids Feb. 6, grading 5.7 mi. highway between Sierra Natl. Forest and Briceburg, Mariposa Co., (a) corrugated metal pipe, (b) concrete pipe, from F. Rolandi, 550 Montgomery St., San Francisco, (a) $177,484, (b) $181,439; W. S. Mead (Twohy Bros.) Hobart Bldg., San Francisco, (a) $202,423; Chadwick & Sykes, Crocker Bldg., San Francisco, (a) $210,959, (b) $219,726; Warren Constr. Co., Rialto Bldg., San Francisco and Journal Bldg., Portland, Ore., (a) $212,152, (b) $217,148. Noted Jan. 19.

Cal., Martinez—Supervs. Contra Costa Co. opened bids Feb. 6, 7 mi. highway from San Pablo Canyon to Orinda Park (a) 18,000 cu.yd. excav., 9,112 yd. concrete pavement (excluding curbs), 147,628 sq.ft. macadam center and macadam shoulders, 10,000 cu.yd. overhaul, (b) 18,000 cu.yd. excav., 10,821 cu.yd. concrete, incl. curbs, 147,628 sq.ft., macadam center and 10,000 cu.yd. overhaul, from Downer & Mero, 2234 Macdonald Ave., Richmond, (a) $182,619, (b) $185,860; Bates & Borland, Oakland Bank of Savings Bldg., Oakland, (a) $198,204, (b) $211,981; Hutchinson Co., 1706 Bway., Oakland, (a) $204,726; E. E. Grow, 318 14th St., Richmond, (b) $210,272. Noted Jan. 19.

CONTRACTS AWARDED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, grading, curbing and laying sidewalks on Elmore Pl. (East 22nd St.), to C. Gallagher, 745 Dean St., $2,739; Lenox Rd., to Castle Bros., Inc., Johnson Pl., $5,705; 19th Ave., to Simonelli & Son, Inc., 28 Conselyea St., Greenpoint, $4,996; paving Elmore Pl. (East 22nd St.) and curbing Farragut Rd., to Cleveland Trinidad Paving Co., Flushing, $7,282 and $14,255 respectively. Noted Feb. 9.

N. Y., Brooklyn—Park Bd. at office Dept. Parks, Municipal Bldg., New York, improving Ocean Parkway Traffic Rd. between Ave. W and Coney Island Creek Bridge, here, to Cranford Co., 52 9th St., $87,355. Noted Feb. 9.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, 68 Hunterspoint Ave., grading, curbing and laying sidewalks on Olmstead Pl., to C. Kurth, 9519 126th St., Richmond Hill, $401; paving Olmstead Pl. to Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $870; Purvis St., to Cleveland Trinidad Paving Co., Flushing, $5,364; grading Liberty Ave., to W. P. McDonald Constr. Co., 17 West 42nd St., $162,582; sewer in Mueller St., to J. F. Clancy, Inc., 460 Lockwood St., Astoria, $2,539. Noted Feb. 9.

N. J., Belvidere—Bd. Freeholders Warren Co. paving 1 mi. road from here to Oxford, White Twp., concrete, to Eng. Constr. Co., Walnut St., Phila., $108,255.

N. J., Salem—Salem Co. reconstructing State Highway Route 6, Sect. 5, Shirley-Oldmans Creek, rein.-con., to B. Foster Co., 20th and Venango Sts., Phila., $254,022. Noted Jan. 19.

N. C., Gastonia—Gaston Co. hard surfacing 8 mi. highway, to Carolina Contg. Co., Chester, S. C., $63,000. Noted Dec. 29.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties: Wood Co., Sects. "A," "B" & "Haskins" Bowling Green-Waterville Rd., 5,105 mi., to Johnson, Van Wagoner & Johnson, Tontogany, Ohio, $83,184. Defiance Co., Sect. "A" Paulding-Bryan Rd., 1.872 mi., J. A. Elder, Bryan, Ohio, rein.-con., $52,678. Knox Co., Sect. "B-1" Mt. Vernon-Newark Rd., 3.39 mi., monolithic brick, John L. Edwards, Sunbury, $114,677. Licking Co., Sect. "G" Newark-Mt. Vernon Rd., 4.053 mi., rein.-con., J. F. Stambaugh, Ada, $129,720. Portage Co., Sect. "S" Akron-Youngstown Rd., 2.427 mi. bituminous concrete, Mahoning Constr. Co., Warren, $73,159. Wood Co., Sect. "A"

Streets and Roads (Continued)

Perrysburg-Fostoria Rd., 2.576 mi., tar macadam, W. Sousley, Ada, $53,049. Fulton Co., Sect. "Q-2" Bryan-Wauseon Rd., 2.003 mi., rein.-con., D. M. Roach, Defiance, $55,713. Sect. "S" Bryan-Wauseon Rd., 1.008 mi., rein.-con., D. M. Roach, Defiance, $27,814. Perry Co., Sect. "B" McConnellsville-New Lexington Rd., 3.749 mi., plain concrete, W. F. Payne, Springfield, $145,183. Warren Co., Sect. "C-1" Columbus-Cincinnati Rd., 4.424 mi., tar macadam, J. W. Weeks, Lebanon Park, Dayton, $86,094. Warren Co., Sect. "C-2" Columbus-Cincinnati Rd., 2.449 mi., tar macadam, J. W. Weeks, Lebanon Park, Dayton, $62,748. Hamilton Co., Sect. "B" Cincinnati-Brookville Rd., 4.677 mi., plain concrete, Gradison Constr. Co., 701 First Natl. Bank Bldg., Cincinnati, $216,281. Fulton Co., Sect. "M" Toledo-Wauseon Rd., 1.004 mi., rein.-con., Le Baiteaux & Hayes, Toledo, $24,706. Fulton Co., Sect. "Fayette" Archbald-Fayette Rd., 0.478 mi., rein.-con., J. A. Elder, Bryan, $29,638. Noted Jan. 26, Feb. 2 and 9.

O., Cleveland—Comrs. Cuyahoga Co., improving Richfield Rd., to R. J. Burke Co., Schofield Bldg., $96,093. Noted Feb. 2.

O., St. Clairsville — Belmont Co. paving North Rd. from Hendrysburg to Sewellsville, vitr. brick, to F. Amrine, Brookside, $66,420.

Wis., Milwaukee—Comr. Pub. Wks., asphalt and hard sandstone paving (1) Davis St., (2) Delaware Ave., (3) Ellen St., (4) Fernwood Ave., (5) 1st Ave., (6) 41st St., (7) 48th St., (8) North Ave., (9) 7th Ave., (10) South Pierce St., (11) 13th St., (12) Vermont Ave., to F. P. Coughlin Co., 888 Island Ave., (1) $6,672, (8) $8,473; White Constr. Co., 68 Wisconsin St., (2) $27,423, (3) $13,261, (4) $11,922, (5) $21,763, (9) $8,186, (10) $46,009, (12) $6,106; Badger Constr. Co., 97 Wisconsin St., (6) $21,368, (7) $28,715; G. Czerwinski, 376 16th Ave., (11) $19,910; paving 6 alleys with cement concrete, to Bodemann Constr. Co., 801 Winnebago St., $11,294, paving 4 alleys to F. Banaszak, 1335 4th Ave., $5,790. Noted Feb. 2.

Minn., Duluth—Paving 7th St. from Piedmont St. to 25th Ave., 5,200 sq.yd. concrete on macadam, 6,050 cu.yd. excav. and 3,510 lin. ft. integral concrete curbing, to J. McDonnell St. Louis Hotel, $26,077; 1¼ mi. Woodland Ave. from Oxford to Austin Sts., to R. J. Kapphahn Constr. Co., Chisholm, $100,785. Noted Jan. 12.

Minn., Faribault—Rice Co., Job 2201, grading to Roach Bros., Gaylord, $21,501. bridge and culverts to A. Odden, Grand Meadow, $5,235, culvert metal to Klauer Mfg. Co., 94th and Washington Sts., Dubuque, Ia., $918; Jobs 2203 and 2204, grading to R. B. Fraser, Northfield, $12,767 and $11,149 respectively, culvert metal to Berger Mfg. Co., 1707 Bway., N. E., Minneapolis, $2,801, culverts to W. Wieres & Co., Faribault, $933. Noted Jan. 19.

Tex., Bastrop—Bastrop Co. grading and gravel surfacing State Highway 20; 8.8 mi. Sect. C. to W. C. Moore, Smithville, $32,718; 9.68 mi. Sect. B. to R. G. Buckner & Son, Cleburne, $62,573. Noted Feb. 9.

Tex., New Braunfels—Comal Co., grading and gravel surfacing 16.6 mi. State Highway 46, to Harris & Powell, Tyler, $79,800. Noted Feb. 2.

Cal., Glendale—Grading, curbing, paving and laying sidewalks on Howard, Geneva, Dorn, Everett and Lexington Sts., to Fleming Constr. Co., 105 North Park Ave., Pomona, $31,155. Noted Jan. 26.

Industrial Works

PROPOSED WORK

Va., Norfolk—Robertson Chemical Corp., Bd. of Trade Bldg., plans to rebuild burned building or remodel and rebuild entire plant, Money Point. Cost to exceed $40,000.

W. Va., Huntington—Huntington Transfer & Storage Co., 1027 4th Ave., opens bids about March 1, 5 story, 100 x 110 ft., concrete and steel storage plant, 7th Ave. $150,000.

O., Cleveland—J. Rosicka, 3726 East 71st St., had plans prepared by H. T. Jeffrey, archt., 437 The Arcade, 1 story, 38 x 40 ft. paint shop, brick, plain foundation. $40,000.

O., Cleveland—Ward Baking Co., c/o J. B. Arthur, East 143rd St. and Southern Blvd., New York, had plans prepared, by C. B. Comstock, archt., 110 West 40th St., New York, 4 story, baking plant, brick, steel and concrete, plant foundation, East 45th Pl. and Perkins Ave., here. $300,000.

Ind., Ft. Wayne—Craig Biscuit Co., 115 Montgomery St., having plans prepared by McCormick Co., archts., 41 Park Row, New York, 4 story baking plant, rein.-con. and brick. $150,000.

Ind., Michigan City—Haskell & Barker Car Co., having plans prepared by H. Shaw, archt., 39 State St., Chicago, 2 story paint shop, brick. $150,000.

Wis., Amery—Mirviss Mfg. Co., 116 Washington Ave., N., Minneapolis, Minn., plans 2 story, 50 x 100 ft., brick, rein.-con. and steel factory, plain foundation. $60,000. Architect not selected.

Wis., Chippewa Falls—R. Kunsman, 29 West Spring St., plans 1 story, 68 x 125 ft., rein.-con. garage, plain foundation. River St. $40,000. Architect not selected.

Wis., Darlington—E. H. Rodham had plans prepared 1 story, 90 x 90 ft., brick, rein.-con. and steel garage and repair shop, plain foundation. $45,000. Private plans.

Wis., Madison—Kennedy Dairy Co., 618 University Ave., having plans prepared by E. Tough, archt., 24 East Mifflin St., 2 story, 85 x 132 ft. brick, rein.-con. and steel dairy, plain foundation, Washington St. $100,000.

Wis., Manawa—Little Wolf River Lumber Co. having plans prepared by T. W. Orbison, engr., 812 College Ave., Appleton, 1 story, 40 x 54 ft. power plant and lumber mill, brick, rein.-con. and steel, plain foundation. $50,000.

Wis., Milwaukee—J. Olinger, 194 3rd St., having plans prepared by Leiser & Holst, archts. and engrs., 105 Wells St. 5 story, 50 x 150 ft. film storage plant, rein.-con. and brick, plain foundation, 4th and Wells Sts. $85,000.

Wis., Sheboygan—S. W. Miller Paino Co., 2020 North 15th St., plans 2 story, 56 x 108 ft., brick and rein.-con. factory, plain foundation, Niagara St. $65,000. Architect not selected.

Wis., Sparta—E. J. Sheldon having plans prepared 2 story, 50 x 88 ft. garage and machine shop, brick, rein.-con. and steel, plain foundation, Main St. $50,000. Private plans.

Wis., Stevens Point—R. Newby Auto Co., 119 Strongs Ave., having preliminary plans prepared by F. Spalenka, archt., Stevens Point, 2 story, 80 x 135 ft., brick and concrete garage, plain foundation. $40,000. Noted Jan. 26.

Wis., Wilton — Wilton Canning Co., Main St., having plans prepared by Industrial Eng. Co., engrs., Laycock Bldg., Eau Claire, 2 story, 60 x 85 ft., brick, rein.-con. and steel factory, plain foundation, Main St. $75,000.

Kan., McCracken—City, c/o L. L. Ryan, city clk., takes bids about March 1, power plant, 2 motor driven pumps and 2 oil engines, Diesel or Semi-Diesel type. Ruckel Eng. Co., Hutchinson, engrs.

Kan., Rosedale—See "Buildings."

Mo., Jefferson City—W. B. Haarstick and R. Knox, Vandalia, plan 2 story auto chain factory, rein.-con., brick, stone and steel. $70,000. Architect not selected.

Mo., Jefferson City—Standard Crate & Filler Co. having plans prepared 2 story, 100 x 220 ft., rein.-con., brick, steel and stone factory. $200,000. W. F. Winkleman, treas. Private plans.

Mo., St. Louis—D. F. McCabe, 6407 Ridge Ave., having plans prepared by Bonsack & Pearce, archts., Laclede Gas Bldg., 1 story, 75 x 95 ft., rein.-con., brick and steel garage. $40,000.

Mo., St. Joseph—April 11, to vote on $300,000 bonds for electric light plant.

Tex., Mexia—Election soon to vote on $800,000 bonds for electric lighting system, incinerator, jail, extensive waterworks improvements, requiring new machinery, (will purchase present waterworks system for $112,500) and make improvements amounting to $300,000. J. F. Klotz, city engr.

Wash., South Tacoma (Tacoma P. O.)—Northern Pacific Ry., 522 2nd Ave., S., St. Paul, Minn., plans to improve shops, here. $350,000. H. E. Stevens, St. Paul, ch. engr.

Ont., Toronto—See "Railways."

Ont., Windsor—Canadian Pacific Ry. London, plans 1 and 2 story, 125 x 800 ft. brick and concrete freight terminal, Caron Ave., here. $200,000. Prices wanted on all materials. J. A. Irvine, London, div. engr. Noted Dec. 15, under Railways.

BIDS DESIRED

O., Cleveland—Winters Garage Co., 1381 West 117th St., taking bids 1 story, 42 x 100 ft., brick and steel garage, plain foundation, West 117th St. near Clifton Bldg. $40,000. Private plans.

Mich., St. Joseph—Davidson & Weiss, archts., 53 West Jackson Blvd., Chicago, receiving bids 1 story, rein.-con., brick and steel addition to factory, for Auto Specialty Mfg. Co. $100,000. Noted Dec. 29.

Mich., St. Joseph—C. A. Esser, archt., 38 South Dearborn St., Chicago, receiving bids 3 story, 80 x 214 ft. rein.-con., brick and steel factory, for Gurinian Candy Co., c/o architect. $75,000.

Ill., Champaign—March 1, Get-Gas Service Stations, Inc., 1 story, 21 x 21 ft. and 40 x 80 ft. warehouse and service station, brick, tile and concrete, also 2 steel tanks, concrete supports, 20,000 gal. capacity. $40,000. H. F. Downing, mgr. Private plans.

Ill., Chicago—C. R. Berglund, 2630 Wentworth Ave., receiving bids 1 story, 100 x 125 ft. factory, rein.-con., brick and steel, 67th and South Park Ave. $75,000. A. G. Lund, 449 West 63rd St., archt.

Wis., Milwaukee—Amer. Granite Wks., 15th and Cleveland Aves., receiving bids 1 story 62 x 354 ft. granite works, brick and steel, plain foundation, 15th Ave. Private plans. Noted Feb. 2.

Mont., Bozeman March 4, (change of date) by Bd. Examiners, Helena, 1 story, 45 x 74 ft., heating plant, concrete and steel, complete incl. equipment at College of Agriculture and Mechanical Arts, here. $150,000. F. Wilson, Bozeman, archt. Pillsbury Co., 1200 2nd Ave., S., Minneapolis, Minn., engrs. Noted Jan. 26.

Mont., Missoula—March 4 (change of date) by Bd. Examiners, Helena, 1 story, 45 x 74 ft. heating plant, brick, steel and concrete, complete, incl. equipment, at State University, here. $150,000. Bakke & Forbes, Gibson Bldg., archts. C. L. Pillsbury Co., 1200 2nd Ave., S., Minneapolis, Minn., engrs. Noted Jan. 26.

CONTRACTS AWARDED

Mass., Forge Village—Abbott Worsted Co., 3 story, 88 x 243 ft., combing building, brick, to Casper Ranger Constr. Co., 201 Devonshire St., Boston, $200,000.

Conn., Waterbury—National Biscuit Co., 22 Spring St., 2 story, 60 x 120 ft., mill construction plant, plain foundation, North Liberty St., to G. S. Chatfield Co., 138 Division St. $40,000. Noted Feb. 2.

N. J., Fernwood (Trenton P. O.)—L. Grover, clk. State Hy. Dept., Trenton, 1 story, 106 x 404 ft., brick and steel auto service station, concrete pile foundation, here, to Austin Co., 1026 Bulletin Bldg., Phila., $94,300. Noted Jan. 5.

O., Cincinnati—Federal Garage Co., 417 Sycamore St., 5 story, 60 x 239 ft., rein.-con. garage, plain foundation, to Ferro Concrete Co., 3rd and Elm Sts., $145,000.

Ind., Evansville—Chero-Cola Bottling Co., 320 Lower 2nd St., 2 story, 90 x 120 ft. warehouse West Franklin St., to M. J. Hoffman Constr. Co., Furniture Bldg., $40,000.

Ill., Centralia—City let contract 1 story, 50 x 103 ft. power house, brick, to Beeson Mchy. Co., 308 Mutual Bldg., Kansas City, Mo., $82,600.

Ill., Chicago—Pittsburgh Flour Mills Co., 112 West Adams St., 2 story, 100 x 180 ft., warehouse, rein.-con., brick and steel, Fullerton Ave. near Elston Ave., to C. D. Robson Co., 38 South Dearborn St., $160,000.

Cal., Los Angeles—Angeles Furniture Co., 931 East Pico St., 2 story, 123 x 138 ft., rein.-con. factory, Pico St. near Stanford St., to J. M. Cooper, Marsh-Strong Bldg., $50,000.

Cal., San Bernardino—Atchison, Topeka & Santa Fe Ry., Kerckhoff Bldg., Los Angeles, 1 story, 65 x 510 ft. addition to machine shops, here, to C. A. Fellows, Central Bldg., Los Angeles. $250,000. Noted Jan. 26.

Buildings

PROPOSED WORK

Conn., Hartford—High School—W. H. Scoville, chn. High School Plant and Bldg. Com., takes bids latter part of month, 3 story, rein.-con., brick and steel, plain foundation, Ridgefield and Greenfield Sts. $1,500,000. F. I. Cooper Corp., 33 Cornhill, Boston, archts. Noted June 16.

N. Y., Hornell—High School—Bd. Educ. opens bids about April 1, brick and stone, brick foundation. $450,000. Tooker & Marsh, 101 Park Ave., New York, archts. and engrs. Noted Feb. 9.

N. Y., Malone—School—Bd. Educ. having plans prepared by Tooker & Marsh, archts. and engrs., 101 Park Ave., New York, brick, steel and stone, plain foundation. $220,000.

N. Y., New Rochelle—Apartment—Trinity Arms Corps., c/o P. J. Rocker, archt. and engr., 6 East 46th St., New York, soon takes bids 8 story, brick, steel and stone, plain foundation, Huguenot St., here. $750,000.

N. Y., New York—Apartment—R. and E. Jacobs, 542-5th Ave., plans 14 story, brick, steel and stone, plain foundation, on plot 100 x 125 ft., Columbus Ave. and 81st St. $1,500,000. Architect and engineer not selected.

N. Y., New York—Apartment—Seventy-One West 12th St., Inc., c/o R. T. Lyons, archt. and engr., 342 Madison Ave., having plans prepared 6 story, 87 x 103 ft., brick, steel and stone, plain foundation, 71 West 12th St. $350,000. M. Banner, pres.

N. Y., New York—Apartment—J. W. Springer, c/o C. B. Meyers, archt. and engr., 31 Union Sq., soon takes bids 6 story brick steel and stone, plain foundation, Haven Ave. and 170th St. $175,000.

Buildings (Continued)

N. Y., New York—Schools—Bd. Educ., 500 Park Ave., plans brick, steel and stone, plain foundation, on plot 204 x 224 ft. at 415-431 East 120th St., $500,000; brick, steel and stone addition to P. S. 121, on plot 50 x 101 ft., East 102nd St. near 2nd Ave., $450,000; brick, steel and stone, plain foundation, on plot 200 x 350 ft., 2nd Ave. and 66th St., $600,000. C. B. J. Snyder, Municipal Bldg., archt. and engr.

N. Y., New York—Showroom—Bway. and 37th St. Corp., c/o Sommerfield & Steckler, archts. and engrs., 31 Union Sq., having plans prepared 16 story, 105 x 173 ft., brick steel and stone, plain foundation, Bway. and 37th St. $750,000.

N. Y., Riverhead—High School—Bd. Educ. having plans prepared by Tooker & Marsh, archts. and engrs., 101 Park Ave., New York, brick, steel and stone, plain foundation. $250,000.

N. Y., Rye—School—Bd. Educ. opens bids about April 1, altering and building brick and stone addition. $150,000. Tooker & Marsh, 101 Park Ave., New York, archts. and engrs. Noted April 14.

Pa., Greensburg—Hospital—Westmoreland Hospital having plans prepared by E. L. Tilton, archt., 52 Vanderbilt Ave., New York, and P. A. Bartholomew, associate archt., Coulter Bldg., Greenburg, addition to hospital, incl. boiler house, nurses home and laundry. $500,000.

Pa., Jersey Shore—Lodge—La Bell Vallee Lodge 232 F. and A. M., opens bids about April 1, 3 story, 60 x 100 ft., brick and stone, Main St. $150,000. F. A. Rianhard, Masonic Temple, Williamsport, archt.

Pa., Williamsport—Bank—Susquehanna Trust & Safe Deposit Co., West 4th St., takes bids before April 1, 2 story, 42 x114 ft. rein.-con., marble and stone, West 4th St. $175,000. Simons, Britain & English, 336 4th Ave., Pittsburgh, archts.

N. C., Charlotte—Hotel—Citizens Hotel Co. plans 10 or 12 story, West Trade St. $1,000,000. W. L. Stoddard, 9 East 40th St., New York, archt.

Ky., Louisville—Store—Joseph & Joseph, archts., Francis Bldg., take bids in March, 4 story, 50 x 210 ft. addition, 315 West Market St., for Bensinger Outfitting Co. $175,000.

Ky., Louisville—Store—Joseph & Joseph, archts., Francis Bldg., soon take bids 3 story, 50 x 100 ft. addition, 3rd and Bloom Sts., for H. D. Brooks. $150,000.

O., Cincinnati—Dormitory—Trustees University of Cincinnati, Clifton Ave., open bids early in March for rein.-con. and brick, plain foundation, Calhoun St. $225,000. C. Hake and H. Kuck, Telephone Bldg., archts.

Ill., Chicago—Exposition—H. Raeder, archt., 20 West Jackson Blvd., soon takes bids 16 story, 218 x 415 ft., rein.-con., brick and steel, Erie St. near Fairbanks Court, for Amer. Furniture Mart Bldg. Corp., c/o architect. $5,000,000.

Ill., Chicago—Field House—South Park Comrs., 57th St. and Cottage Grove Ave., soon take bids, 1 and 2 story, 185 x 255 ft., rein.-con., brick and steel, in Calumet Park. $250,000. L. White, ch. engr.

Ill., Chicago—Hospital and Home—Schmidt, Garden & Martin, archts., 104 South Michigan Ave., soon take bids 2 and 3 story, 175 x 175 ft., rein.-con., brick and steel, Crawford and Keeler Sts., for Salvation Army, c/o architects. $150,000.

Ill., Chicago—Hotel—S. S. Beman and T. R. Bishop, archts., 35 South Dearborn St., soon takes bids 5 story, 129 x 180 ft., rein.-con., brick and steel, Marquette Rd and Stony Island Ave., for R. L. Langford, 1533 East 53rd St. $400,000.

Ill., Chicago—Office—Chicago Mercantile Exch., 136 West Lake St., plans 14 story, 40 x 150 ft., rein.-con., brick and steel, La Salle and Lake St. $2,000,000. Architect not selected.

Ill., Chicago—Office—Davidson & Weiss, archts., 53 West Jackson Blvd., soon take bids 10 story, 100 x 100 ft., rein.-con., brick and steel, Harrison and Clark Sts., for Harrison Clark Building Corp., c/o architects. $500,000.

Ill., Park Ridge—Store and Apartment—Betts & Bucket, archts., 155 North Clark Sts., Chicago, soon take bids 2 story, 210 x 420 ft., rein.-con., brick and steel, for W. H. Malone, c/o architects. $200,000.

Wis., Manitowoc—School—Perkin, Fellows & Hamilton, archts., 814 Tower St., Chicago, soon take bids 2 story, 100 x 150 ft., rein.-con., brick and steel, 9th and Division Sts., for Bd. Educ., 604 North 6th St. $150,000.

Minn., Cloquet—School—Bd. Educ. will probably ask for bids latter part of month, 2 story, 80 x 125 ft., rein.-con., brick, tile and stone. $150,000. Kelly & Shefchik, 505 Lonsdale Bldg., Duluth, archts.

Kan., Wichita—High School—Bd. Educ. having plans prepared by L. Schmidt & Co., archts., 121 North Market St., rein.-con. and steel. $1,000,000.

Mo., St. Joseph—Civic Center, etc.—April 11 to vote on $750,000 bonds for civic center incl. city hall; $400,000 for museum; $250,000 for soldiers memorial; $200,000 for contagious diesease hospital; $48,000 for addition to Central Police station.

Tex., Mexia—Jail—See "Industrial Works."

Tex., San Antonio—Hospital—State Baptists plan hospital on Dignowity Hill and Nolan St., here. $1,000,000. J. E. Carroll, 102 West French Pl., chn. Woman's Hospital Com. Architect not selected.

Cal., Napa—High School—Napa Union High School Dist. having plans prepared by W. H. Weeks, archt., 369 Pine St., San Francisco, for main building, manual training and domestic science buildings, fireproof construction. $300,000.

Cal., Palo Alto—Hotel—Stanford Hotel Corp. having plans prepared by Bakewell & Brown, archts., 251 Kearny St., San Francisco, for students hotel. Cost to exceed $150,000.

Cal., San Francisco—School—J. Reid, Jr., city archt., 1st Natl. Bank Bldg., takes bids latter part of March, "Pacific Heights School," 4 story, rein.-con., North Jackson St. between Webster and Fillmore Sts. $300,000.

Cal., Santa Monica—Casino and Office—Casino Building Co., c/o Russell & Alpaugh, archts., 1106 Story Bldg., Los Angeles, having plans prepared 3 story, 104 x 202 ft., brick and stucco, Ocean Front and Marine Ave. $250,000.

BIDS DESIRED

N. Y., New York — Apartment — M. Deutsch Building Co., 50 Church St., 5 story, brick, steel and stone, plain foundation, Burnside Ave. and Grand Concourse, $300,000. Work will be done by separate contracts. Private plans.

N. Y., New York—Loft—J. Tishman & Sons, 280 Madison Ave., 16 story, brick, steel and stone, plain foundation, 142-148 West 36th St. $700,000. Work will be done by separate contracts. Schwartz & Gross, 347 5th Ave., archts., and engrs.

N. J., Jersey City—School—Feb. 21, by Bd. Educ., brick, steel and stone, plain foundation, Bergen Ave. $250,000. J. T. Rowland, 100 Sip Ave., archt. and engr.

N. J., Jersey City—School—Feb. 21, by Bd. Educ., 3 story addition to P. S. 5, brick, steel and stone, plain foundation. J. T. Rowland, 100 Sip Ave., archt. and engr.

Pa., Monessen—High School—Feb. 24, by J. M. Beal & Sons, archts., Monessen, 2 story, 138 x 200 ft. high school for Bd. Educ. $300,000.

O., Cincinnati—Clubhouse—March 1, by S. Hannaford & Sons, archts., Dixie Terminal Bldg., and Garber & Woodward, archts., Union Central Bldg., 11 story, 88 x 200 ft., rein.con., brick and steel, plain foundation, 8th and Race Sts., for Cincinnati Business Men's Club, 9th and Race Sts. $2,000,000.

O., East Liverpool—Bank—March 1, by Mowbray & Uffinger, archts. and engrs., 56 Liberty St., New York, 1 story, 60 x 125 ft., brick, steel and stone, here, for First Natl. Bank. $150,000. Noted Feb. 2.

Ind., Ft. Wayne—Hotel—Keenan Hotel Co., c/o Anthony Hotel, 128 West Berry St., receiving bids 15 story 90 x 110 ft., brick, terra cotta and steel. $900,000. C. R. Weatherhogg, Citizens Trust Bldg., archt. Noted Dec. 22.

Ind., Indianapolis—Club—March 1 by R. F. Daggett, archt., Lemcke Annex, 11 story, 100 x 200 x 127 ft., brick and steel, Vermont and Meridian Sts., for Indianapolis Athletic Club c/o H. C. S. Motor Car Co., 14th and Capitol Sts., H. K. Campbell, pres. Ammerman & McColl, Occidental Bldg., engrs. Noted Dec. 22.

Ind., Rockville—Sanitarium—March 9 by Bd. Trustees Indiana State Sanitarium, 2 story, 45 x 100 ft. and 2 story, 60 x 110 ft., brick, here. $150,000. J. A. Carter, supt., Shourds-Stoner Co., 511 Tribune Bldg., Terre Haute, archts. Noted Dec. 15.

Mich., Ecorse—School—Feb. 20, by J. G. Kastler Co., archts., 523 Detroit Savings Bank Bldg., Detroit, 2 story, brick and steel, plain foundation, here, for Dist. 3. $150,000. Noted Jan. 19.

Mich., Grand Rapids—Hotel—B. K. Gibson & Co., archts., 608 South Dearborn St., Chicago, receiving bids 8 story, 152 x 154 ft. rein.-con., brick and steel, Monroe and Michigan Aves., for Furniture City Realty Co., 515 Lyons Ave. $1,000,000. Noted Nov. 17.

Ill., Champaign—Fraternity House—Feb. 25, by H. Shaw, archt., 39 South State St., Chicago, 3 story, 45 x 75 ft., brick and stone, Chalmers Ave., for Phi Delta Theta Fraternity, 202 East Green St. $150,000.

Ill., Chicago—Apartment—S. Cliff & Co., 10 South La Salle St., receiving bids 3 story, 120 x 133 ft., rein.-con., brick and steel, Juneway Terrace near Lake Michigan Ave., archt. $400,000. D. W. Turbyfil, 3760 Sheridan Ave., archt.

Ill., Savanna—High School—Feb. 21, Savanna Twp. Bd. Educ., 2 story, 76 x 100 ft., rein.-con., brick and stone. $150,000. L. A. Oyster, 835 Main St., secy. Ashby & Schulze, 1511 West Jackson Blvd., Chicago, archts. Noted Nov. 24.

Ill., Tuscola—School—Feb. 25, by Bd. Educ., 2 story, rein.-con., brick and stone. $150,000. F. E. Rose, secy. Leise & Ludwig, Danville, archts. Noted Nov. 17.

Ill., Urbana—Hospital—Feb. 25, by G. Ramey, archt., 423 Robeson Bldg., Champaign, 3 story, 55 x 110 ft., brick, rein.-con. and steel, for St. Marys Mercy Hospital. $175,000. Noted Sept. 1.

Wis., Milwaukee—Church—March 1, by A. Dohmen, archt., 68 Wisconsin St., 1 and 2 story, 62 x 114 ft., brick and tile, plain foundation, Layton Blvd., for Evangelical Lutheran Church of Ascension, 1168½ 25th Ave. $150,000.

Wis., Milwaukee—Hospital and Nurses Home—March 1 by Scott & Mayer, archts., 445 Milwaukee St., 5 story, 92 x 100 ft., hospital and 2 story 40 x 100 ft. nurses' home, rein.-con. and brick, plain foundation, Grand Ave., for Milwaukee Childrens Free Hospital, 219 10th St. $350,000 to $400,000.

Ia., Dubuque—High School—Feb. 27, by Bd. Educ., 3 story, rein.-con., brick, tile and stone. $325,000. L. Palen, secy. J. Royer, Flat Iron Bldg., Urbana, Ill., archt. Noted July 7.

Ia., Shelby—High School—Feb. 25 by Bd. Educ., 2 story, 120 x 190 ft., rein.-con., brick, stone and steel. $150,000. J. Latenson & Sons, 632 Peters Trust Bldg., Omaha, Neb., archts.

Kan., Larned—High School—Feb. 20, by Bd. Educ., 3 story, rein.-con., brick and steel. $150,000. R. O. Beattie & Co., Hutchinson, archts.

Kan., Topeka—High School—Feb. 27, by Bd. Educ., 3 story, 100 x 134 ft., rein.-con. and steel. $200,000. C. D. Cuthbert, 735 Kansas Ave., archt. Noted Oct. 27.

Mo., Maryville—Dormitory—Feb. 23, by R. and E. R. Meier, archts., 203 Lincoln Bldg., St. Joseph, 3 story, 40 x 250 ft. with 40 x 85 ft. wing, brick and stone, here, for Northwest Missouri State Teachers College. $200,000. Noted Nov. 3.

Wash., Olympia—Administration—March 13, by W. P. Wilder, archt., Olympia, 2 story, 176 x 334 ft. incl. 175 x 414 ft. terrace, rein.-con. and brick, capitol grounds, for State Capitol. $400,000.

Cal., Pomona—High School—March 7, by Bd. Educ., 2 story, 160 x 275 ft., brick, concrete and terra cotta. $450,000. W. H. Week and R. Orr, 1301 Van Nuys Bldg., Los Angeles, archts.

BIDS RECEIVED

R. I., Providence—School—Dept. Pub. Wks. opened bids Feb. 6, 3 story, 92 x 151 ft., brick, Sacket St., from A. F. Smiley, 202 Oak Hall Bldg., Pawtucket, $198,243; J. W. Bishop Co., 417 Butler Exch., $198,750; Interstate Constr. Co., 319 Kinsley Bldg., $204,900. Noted Feb. 2.

Wis., Kenosha—Hotel—Sheridan Hotel Corp., c/o W. F. Mayer, 221 Grand Ave., Milwaukee, and Nicol, Scholer & Hoffman, archts., Ross Bldg., Lafayette, Ind., opened bids Feb. 7, 9 story, 84 x 97 ft., rein.-con. and brick, plain foundation, Sheridan Rd., from R. L. Reisinger Co., 464 Oakland Ave., Milwaukee, $206,990; English Bros., 419 Lincoln Bldg., Champaign, Ill., $214,000; Van Kamen & Overmeyer, Kenosha, $218,640. Noted Feb. 2.

Minn., St. Paul—School—H. W. Austin, city purch. agt., opened bids Feb. 6, (1) 3 story, 70 x 260 ft., Harrison St. and Western Ave., (2) 3 story, 66 x 130 ft., Arcade and Hyacinth Sts., (3) 3 story, Linwood Pl., all rein.-con., brick, tile and stone, from L. W. Baumeister & Son, 1145 Ross St., (1) $256,000, (2) $157,000, (3) $149,424; F. C. Norlander, 408 Metropolitan Natl. Bank Bldg., (1) $260,000; Lauer Bros., foot of Chestnut St., (1) $280,000; Gauger-Korsmo Constr. Co., 301 Endicott Bldg., (2) $158,887; Lindstrom & Anderson, 206 Bremer Arcade, (2) $159,929, (3) $154,147; P. A. Swenson & Co., 202 Bremer Arcade, (3) $147,435. Noted Feb. 2.

CONTRACTS AWARDED

Mass., Boston—Mercantile—Blodgett, Ordway & Webber, 100 Kingston St., 5 story, 105 x 144 ft., rein.-con. and brick, Harrison Ave., to Fritz Constr. Co., 62 Maywood St. Noted Jan. 19, 1921.

Conn., Hartford—Business—D'Esopo Realty Corp., 647 Main St., remodeling store and business building, mill construc-

Buildings (Continued)

tion. Main and Sheldon Sts., to J. A. Ferguson, 310 Franklin Ave. Noted Jan. 26.

N. Y., Brooklyn—Apartment—M. Solomon & Sons, Inc., c/o C. B. Meyers, archt. and engr., 31 Union Sq., New York, 6 story, 100 x 125 ft., brick, steel and stone, plain foundation, New York Ave. and Carroll St., here. $175,000. Work will be done by separate contracts under supervision of architect.

N. Y., Brooklyn—Bank—Roosevelt Savings Bank, Gates Ave., brick, steel and stone addition, plain foundation, to W. L. Crow Constr. Co., 103 Park Ave., New York, $150,000. Noted Dec. 8.

N. Y., Brooklyn—School—Church of Our Lady of Peace, 522 Carroll St., 4 story, brick, steel and stone, plain foundation, to W. Kennedy Constr. Co., 215 Montague St., New York, $250,000.

N. Y., New York—Apartment—A. Brand, c/o C. Schaefer, archt. and engr., 394 East 150th St., 5 story, brick, steel and stone, plain foundation, Crotona Park and Charlotte St., by day labor. $175,000.

N. Y., New York—Apartment—Consolidated Impvt. Co., c/o M. Deutsch, archt. and engr., 50 Church St., 6 story, brick, steel and stone, plain foundation, 140th St. and Brook Ave., by day labor. $180,000.

N. Y., New York—Apartments—Friedman & White Realty Co., c/o H. L. Young, archt. and engr., 253 West 42nd St., three 6 story, brick, steel and stone, plain foundations, Riverside Dr., by day labor. $300,000 each.

N. Y., New York — Apartment — Tris Constr. Co., Inc., c/o G. F. Pelham, archt. and engr., 200 West 72nd St., 5 story, 75 x 200 ft., brick, steel and stone, plain foundation, West 169th St., by day labor. $250,000.

N. Y., New York—Hospital—Roosevelt Hospital, 59th St. and 9th Ave., 8 story, 50 x 100 ft., brick, stone and steel addition, plain foundation, to M. Eidlitz & Son, Inc., 41 East 42nd St., $1,000,000. Noted Jan. 26.

N. Y., New York—Hotel—Empire Hotel, Bway. and 63rd St., 10 story, brick and stone addition, Bway., 63rd St. and Columbus Ave., to W. H. Taylor Eng. & Constr. Co., Bush Terminal Bldg., 42nd St., $500,000. Noted Jan. 12.

N. Y., Woodhaven (Jamaica P. O.)—School—School of the Nativity of Our Blessed Lady, 92nd St., 2 story, brick, steel and stone, plain foundation, to J. Kennedy & Co., 1133 Bway., New York, $150,000.

O., East Cleveland (Cleveland, P. O.)—Apartment—M. Lees, 2099 Lamberton Rd., Cleveland, 3 story, 104 x 142 ft., brick, plain foundation, Page and Euclid Aves., to Cooper & Berkowitz, 2451 East 79th St., Cleveland. Noted Jan. 26 under "Cleveland."

O., Springfield — Dormitory — Masonic Home trustees, National Pike West, constructing Rickly Memorial, 3 story, brick and concrete, to H. R. Blagg Co., East 3rd St., Dayton, $150,000.

Ill., Chicago—Apartment—H. I. Dalsey, archt., 2321 West North Ave., 3 story, 85 x 180 ft., rein.-con., brick and steel, Greenview Ave. and Jonquil Terrace, to Gamm Bros. Constr. Co., 4301 Milwaukee Ave., $190,000. Owners name withheld. Noted Feb. 2.

Ill., Chicago—Apartment—E. H. Henry, 30 East Ontario St., 3 story, 120 x 125 ft., rein.-con., brick and steel, 6540-46 North Ashland Ave., to Rune & Son, 6142 Rhodes Ave., $150,000.

Ill., Chicago — Apartment — Rissman & Hirschfield, archts., 139 North Clark St., 3 story, 100 x 160 ft., rein.-con., brick and steel, Aldine Ave. near North Clark St., to Zielk Constr. Co., c/o architects, for D. Greenberg, 3012 West Roosevelt Rd. $200,000. Noted Feb. 9.

Ill., Chicago—Office—Fidelity Phoenix Fire Insurance Co., 175 West Jackson Blvd., 9 story, 90 x 160 x 214 ft., rein.-con., brick and steel, Russ, Cass and Pearson St., to Leonard Constr. Co., 37 South Wabash Ave. $2,000,000.

Ill., Chicago—School—Beth Na Medrask La Cora, c/o Loewenberg & Loewenberg, archts., 111 West Monroe St., 2 story, 69 x 106 ft., rein.-con., brick and steel, 3448-56 Douglas Blvd., to M. Kalishevston & Bernie, 1342 Independence Blvd. $159,000.

Kan., Independence—High School—Bd. Educ., 3 story, brick and steel, to Brewster Bros., Independence. $357,047. Noted Dec. 29.

Mo., Kansas City — High School — Bd. Educ., general contract for addition to Manual Training High School, to J. Gosling, Railway Exch. Bldg., $157,646; heating work, to W. D. Reed Co., 3405 Independence Ave., $44,805.

Mo., St. Louis—School and Store—Rubicam Business School, 4931 Delmar Ave., 3 story, 80 x 115 ft., rein.-con., brick and stone, Grand and Potomac Sts., by day labor. $150,000. Nolte & Nauman, archts., Fullerton Bldg., will supervise and sublet contracts. Noted Feb. 2.

Tex., San Antonio—Mausoleum—San Fernando Cathedral 1 story, 70 x 200 ft., rein.-con., marble, granite and steel, to L. E. Cornu & Co., 803 Alamo Natl. Bank Bldg., $300,000, cost plus percentage basis. Noted Feb. 9.

Federal Government Work

BIDS DESIRED

Va., Hampton Roads—Motor Generator Set, etc.—Spec. 4570—March 15 (change of date), by Bureau Yards & Docks, Navy Dept., Wash., D. C., motor generator set and switchboard, at naval operating base, here. Noted Feb. 9.

Va., Norfolk—Carriage House—Spec. 4572—March 8, by Bureau Yards & Docks, Navy Dept., Wash., D. C., carriage house, at marine base, here. Noted Jan. 5.

Wash., Tatoosh—Operating and Power Building, etc.—Spec. 4574—March 22, by Bureau Yards & Docks, Navy Dept., Wash., D. C., operating and power building, cistern walk, and water and sewerage systems, at naval radio station, here. Noted Jan. 5.

Cal., San Diego—Steam Supply System—Spec. 4586—March 15, by Bureau Yards & Docks, Navy Dept., Wash., D. C., steam supply system at training station, here.

BIDS RECEIVED

Mass., Boston—Remodeling Hospital—Treas. Dept., Wash., D. C., remodeling south wing Marine Hospital, here, from E. M. Humperville, Cambridge, $12,113; M. Serreto, 3 Tremont Row, $14,400; F. J. Low, Chelsea, $17,880.

Ky., Dawson Springs—Water Treating Plant—Treas. Dept., Wash., D. C., water treating plant, at U. S. Pub. Health Serv. Hospital, here, from Graver Corp., 4809 Todd Ave., East Chicago, Ind., $18,748; Permutit Co., 440 4th Ave., New York, $19,680; Refinite Co. 1023 Harney St., Omaha, Neb. $29,029 alternate $19,440 (60 days). Noted Dec. 15.

CONTRACTS AWARDED

Del., Wilmington—Dredging—U. S. Engineer, Wilmington dredging in Murderkill River and Inland Waterway, between Rehoboth Bay and Delaware Bay, to Delaware Dredging Co., Colonial Trust Bldg., Phila., Pa., $45,760. Noted Jan. 5.

Del., Wilmington—Jetty U. S. Engineer, 6th and King St., 950 ft. stone and concrete jetty, at mouth of Raccoon Creek, in Delaware River, to Carpenter & Petrie, Inc., Norfolk, Va., $27,797. Noted Feb. 9.

Miscellaneous

PROPOSED WORK

Transmission Line — Andale, Kan. — Takes bids about April 1, 20 mi. transmission line from here through Colwich to Wichita. Rucker Eng. Co., Hutchinson, engrs.

Flushers, etc.—St. Joseph, Mo.—April 11, to vote on $30,000 bonds for flushers and sweepers also $25,000 bonds for asphalt plant.

Drill Tower—San Francisco, Cal.—Bd. Pub. Wks. soon takes bids 7 story, rein.-con. drill tower for use of Fire Dept. $40,000. J. Reid, Jr., 1st Natl. Bank Bldg., archt.

BIDS DESIRED

Heating and Ventilating Apparatus, etc.—New Brighton, N. Y.—Feb. 27, by C. B. J. Snyder, supt. School Buildings of Bd. Educ., Municipal Bldg., New York, installing heating and ventilating apparatus, and temperature regulation apparatus, etc. in addition to and alterations in Curtis High School, Hamilton Ave. and St. Marks Pl., here.

Tar, etc.—Trenton N. J.—Feb. 21, by Bd. Freeholders Mercer Co. furnishing 36,000 gal. tar, 100,000 gal. "cut back" asphalt and 26,000 gal. asphaltic emulsion. Former bids rejected. H. F. Harris, Court House, engr. Noted Jan. 19.

Castings and Asphaltic Cement—Harrisburg, Pa.—March 1, by W. H. Lynch, supt. Streets Dept., Dauphin Bldg., castings and 700 ton asphaltic cement in tank cars, f.o.b. Harrisburg.

Dump Trucks—Cincinnati, O.—Byrnes-Conway Co., 20 Bodman Bldg., in market for number of dump trucks.

Road Oil—Adrian, Mich.—March 25, by G. P. Love, city clk., 80,000 gal. road oil, delivered f.o.b. Adrian in tank cars equipped with steam coil for heating; adv. this issue.

Lighting System—Waukegan, Ill.—Feb. 20, by city, ornamental lighting system, 131 c.i. post, steel armored cable, etc. M. J. Douthitt, city engr.

Concrete Mixer and Motor Truck—West Allis, Wis.—E. Lex, 446 68th Ave., in market for ½ bag capacity concrete mixer and 1 ton capacity motor truck.

Road Drag, etc.—Brookings, S. D.—Feb. 23, by Brookings Co., for one or more road drags and maintainers.

Aquarium—San Francisco, Cal.—March 1, by L. P. Hobart, archt., Crocker Bldg., rein.-con. and stone aquarium, Golden Gate Park, for California Academy of Sciences, Golden Gate Park. $250,000. Noted Feb. 9.

Expansion Joint Material—Toronto, Ont.—Feb. 21, by W. A. McLean, deputy minister of highways, Parliament Bldgs., bituminous expansion joint material, Contr. 657; corrugated iron expansion joint material, Contr. 658. G. Hogarth, ch. engr.

BIDS RECEIVED

Steam Heating and Plumbing, etc.—Fernwood (Trenton, P. O.) N. J.—State Hy. Comn., Trenton, opened bids Feb. 7, furnishing and installing (1) steam heating, (2) plumbing, (3) water tank and supply, (4) electric power and lighting, (5) fire sprinkler system in connection with construction of service station, here, from E. P. Merkle, 131 South 12th St., Newark, (1) $14,200; Grinnell Co. 1 Liberty St., New York, (1) $15,085, (5) $12,825; W. G. Cornell, 145 East 52nd St., New York, (1) $17,115, (2) $7,097; Piper Bros., 110 Brunswick Ave., Trenton, (2) $6,700; Buist, Lane Richardson Eng. Co., George St., New Brunswick, (2) $6,789; Pittsburgh-Des Moines Steel Co., 50 Church St., New York, (3) $7,240; Pacific Tank & Pipe Co., 2 Rector St., New York, (3) $7,240; E. F. Schlichter Co., 10 South 18th St., Phila., (3) $7,850; Electrifier Shop, 9 East State St., Trenton, (4) $3,190; Riggs, Distler & Stringer, Inc., 215 North Calvert St., Baltimore, (4) $3,969; C. D. Geller, 230 Park Lane, Trenton, (4) $3,992; H. G. Vogel, 487 Bway., New York, (5) $11,670; F. B. Johnson Co., 669 Princeton Ave., Trenton, (5) $15,820. Noted Jan. 26.

Portland Cement — Milwaukee, Wis. — Central Bd. Purch. opened bids Feb. 10, 10,000 bbl. cement, from Schneider Fuel & Supply Co., 29th and Forest Home Aves., $2.69; Milwaukee Cement Co., 97 Wisconsin St., $2.75; Western Lime & Cement Co., 68 Wisconsin St., $2.80. Noted Feb. 2.

Paving Materials, etc., — Minneapolis, Minn.—K. E. Alexander, city purch. agt. opened bids Feb. 10, 50,000 sq.yd. creosoted wood block, from Indiana Zinc Creosoting Co., 111 West Washington St., Chicago, 3½ in.-$2.09, 4 in.-$2.34, Midland Cresoting Co., 2463 Bway., Toledo, O., 3½ in.-$2.16, Compressed Wood Preserving Co., Winton Pl., Cincinnati, O., 3½ in.-$2.20, 4 in.-$2.52, all bids f.o.b. Minneapolis; 2, 125,000 vitr. or brick blocks from Streater Clay Mfg. Co., 713 Guardian Life Bldg., St. Paul, $36.12 per m. f.o.b. Minneapolis, Reliance Brick Co., 1213 Builders Exch., $37.50, Purington Paving Brick Co., East Galesburg, Ill., $39.92; 900 ton asphalt cement from Standard Oil Co. of Indiana, 1937 4th St. S. E., $17.40 in tank cars, $23.75 drums, Asphalt Sales Corp., 128 North Wells St., Chicago, $20.15 tank cars, $25.50 drums, Standard Oil Co., 3rd and Commercial Sts., St. Paul, $23.50 tank cars, $28.98, drums; 50,000 bbl. portland cement from Landers-Morrison-Christenson Co., 800 Builders Exch., $2.24 with $.05 cash disc., f.o.b. Minneapolis, Minneapolis Builders Supply Co., 315 Lumber Exch., Thompson Yards, Inc., 1645 Hennepin Ave. and P. G. Speakes Co., 2845 2nd Ave. S., same as Landers-Morrison-Christenson Co.; 1,000,000 gal. road oil from Asphalt Sales Corp. 128 North Wells St., Chicago, $.0553 to $.0621 for four grades per gal., Pure Oil Co., 1306 1st Ave. S., $.05775 and $.059 for two grades, Camden Petroleum Co., $.06 for three grades and $.075 for one grade; 1,000 ton paving pitch from S. E. Failay, Atlanta, Ga., $18.50 per ton in bbls. and $20.50 in wagons, f.o.b. Minneapolis, Barrett Co., 1-19th Ave., S., $20.10 in bbls. or car loads and $22.65 factory, f.o.b. Minneapolis; 2,500 ton refined tar from Barrett Co., $.105 to $.164 for six grades, former in tanks at factory, latter delivered on job; 140,000 vitr. block or brick for sewer construction from Purington Paving Brick Co., East Galesburg, Ill., $27.07 f.o.b. Minneapolis, Reliance Brick Co., 1213 Builders Exchange Bldg., $28.50 for 3 x 4 x 8½, Streater Clay Mfg. Co., 713 Guardian Life Bldg., St. Paul, $20. for vitr. building and $32.80 for vitr. paving.

CONTRACTS AWARDED

Bathing Pavilion, etc.—Stamford, Conn.—Bd. Park Comrs., 1 and 2 story bathing pavilion at Haloween Park, incl. bath house, locker room, courts and miscellaneous grading, to Sarles-Cavanaugh Co., Gurley Bldg., $122,335. Noted Jan. 26.

OFFICIAL PROPOSALS

Bids: Feb. 28.

Concrete Pavement

Harrisburg, Pa.

Pennsylvania State Highway Department, Harrisburg, Pa. Sealed proposals will be received at the State Capitol until 10 a.m., February 28, 1922, when bids will be publicly opened and scheduled and contract awarded as soon thereafter as possible for the reconstruction of the following roads: 34,433 feet of One Course Reinforced Concrete Pavement, in Canton and Leroy Townships, Bradford County; 57,665 feet of One Course Reinforced Concrete Pavement, in Mercer Township and Harrisville Borough, Butler County and Irwin Township, Venango County; 39,672 feet of One Course Reinforced Concrete Pavement, in Snyder Township, Blair County and Taylor and Rush Townships, Centre County; 25,175 feet of One Course Reinforced Concrete Pavement, in Ashland and Elk Townships, Clarion County; 5,776 feet of One Course Reinforced Concrete Pavement, in Curwensville Borough, Clearfield County, also 8,217 feet of One Course Reinforced Concrete Pavement, in Pike Township, also 16,812 feet of One Course Reinforced Concrete and Hillside Vitrified Brick Pavement in Knox Township, and 24,573 feet of One Course Reinforced Concrete and Hillside Vitrified Brick Pavement, in Houtzdale Borough and Woodward Township, Clearfield County; 11,774 feet of One Course Reinforced Concrete Pavement, in Lemoyne and Camp Hill Boroughs, Cumberland County; 39,083 feet of One Course Reinforced Concrete Pavement, in White, Center, Blacklick and Young Townships, and Jacksonville Borough, also 27,632 feet of One Course Reinforced Concrete Pavement, in Young Township, Indiana County; 27,412 feet of One Course Reinforced Concrete Pavement, in Lower Gwynedd, Whitpain and E. Norriton Townships, Montgomery County; 33,672 feet of either Bituminous Surface Course on a Concrete Foundation or One Course Reinforced Concrete Pavement, in Buffalo Township and Liverpool Borough, Perry County; 63,935 feet of either Bituminous Surface Course on a Concrete Foundation, or One Course Reinforced Concrete Pavement, in Penn, Union and Chapman Townships, Snyder County; 27,981 feet of One Course Reinforced Concrete Pavement, in Summitt and Elk Lick Townships, and Salisbury Borough, Somerset County; 13,473 feet of One Course Reinforced Concrete Pavement, in Speers and Dunlevy Boroughs and Allen Township, Washington County. Bidding blanks and specifications may be obtained free, and plans upon payment of $2.50 per set, upon application to State Highway Department, Harrisburg. No refund for plans returned. They also can be seen at office of State Highway Department, Harrisburg, 1001 Chestnut Street Philadelphia, 119 Federal Street, N. S. Pittsburgh.

GEORGE H. BILES,
Assistant State Highway Commissioner.

Bids: Mar. 1.

Concrete and Earth Dam

West Chester, Pa.

Sealed proposals will be received by the Borough Councils of West Chester, Pa. at the Municipal Bldg. until 12 o'clock noon on the first day of March, 1922, for the furnishing of all materials, labor, and machinery necessary for the construction of a concrete and earth dam across Chester Creek near Milltown, Chester County, Pa.

Plans and specifications can be obtained at the office of the Borough Secretary, and at the office of Franklin and Company, Consulting Engineers, No. 906-907 Crozer Bldg., Philadelphia, Pa., by making a deposit of Ten Dollars ($10.00) which will be refunded on return of the plans and specifications in good condition.

Proposals shall be accompanied by a certified check for One Thousand Dollars ($1,000) as a guarantee of good faith.

HERMAN G. HUTT.
Burgess.

M. MINERVA DAVIS,
Secy. of Council.

These Advertisements

are official notices that bids are wanted from other than local bidders.

Maximum competition is desired, and this is assured through Engineering News-Record's large NATIONAL circulation, reaching almost every contractor, dealer, and manufacturer in the country interested in bidding on public work contracts. It is the DOMINANT MEDIUM for advertising contracts for work, material, and supplies for towns, cities, counties, state and government departments, and private organizations.

Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate: 40 cents a line an insertion.

Bids: Mar. 6.

Bridge Construction

Mercer, Pa.

Sealed proposals will be received by the County Commissioners of Mercer County, Pennsylvania, at their office at Mercer, Pa., until 11:00 o'clock a.m. on the 6th day of March, 1922, at which time proposals will be publicly opened and read for the construction of the following bridges:

BRIDGE NO. 2305, FRUIT AVENUE VIADUCT, FARREL, PA.
Reinforced concrete Girder Viaduct, 6-50 ft. spans, with 24 ft. roadway and two 6 ft. sidewalks.
Alternate bid for dirt or slag fill 335 ft. in length with 5 ft. culvert, including 50 ft. paved street and 2-5 ft. sidewalks.

BRIDGE NO. 2001, OVER OTTER CREEK, COOLSPRING TOWNSHIP.
Reinforced concrete 50 ft. span.

BRIDGE NO. 2002, OVER COOLSPRING CREEK, COOLSPRING TOWNSHIP.
Reinforced concrete 50 ft. span.

BRIDGE NO. 2103, OVER YELLOW CREEK, JACKSON TOWNSHIP.
Reinforced concrete 50 ft. span.

Each proposal must be accompanied by a certified check in an amount equal to 5% of the total amount of the proposal and not less than $500.00.

The Commissioners will reserve the right to reject any and all bids. Proposals will be received only upon those furnished by the Commissioners.

Plans, specifications, proposal, etc., may be examined at the Commissioners' Office at Mercer, Pa., or may be obtained from Frank P. Graham, County Engineer at Grove City, Pa., for the sum of $5.00 for each set of plans.

NORMAN I. BROMLEY,
Clerk.

Bids: Feb. 28.

Paving

Bluefield, W. Va.

Sealed proposals will be received at the Office of the City Manager until 2:00 o'clock p.m. of the twenty-eighth day of February, 1922, for paving approximately 54,000 square yards of portions of several streets in the City of Bluefield, together with all incidental work pertaining thereto.

A complete set of specifications, instructions to bidders and proposal blanks can be had upon request to the City Manager. Bids made on said proposal blanks must be accompanied by a certified check in the amount of Five Thousand ($5,000.00) Dollars, sealed and addressed to Clarence E. Ridley, City Manager, and marked "Paving Proposal."

CLARENCE E. RIDLEY,
City Manager.

Bids: Mar. 8.

Highway Work

Freehold, N. J.

Notice is hereby given that sealed bids will be received by the County of Monmouth on the following:

Reconstruction of State Highway Route 4 Section 6, Etontown to West Long Branch with a sheet asphalt surface on a concrete foundation. Estimated amount of pavement is 33,232 sq.yds.

Work is to be performed under County Reimbursement Act, Chapter 183, laws of 1918, and amended by Chapter 317, Laws of 1920.

Bids will be received at the Court House at Freehold, N. J., on March 8, 1922, at 11 a.m.

Drawings, specifications and form of contract and bond for the proposed work are on file in the office of Geo. K. Allen, Jr., County Engineer, at 60 Broad St., Red Bank, and in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on deposit of ten dollars ($10.00) upon application to Geo. K. Allen, Jr., County Engineer. Bids must be made on the standard proposal forms in the manner designated therein and as required by the specifications, enclosed in sealed envelopes, addressed to the Board of Chosen Freeholders of the County of Monmouth and bearing the name and address of the bidder and the name and section of the route on the outside. Bid must be accompanied by a certified check drawn to the order of C. Asa Francis, County Treasurer, for not less than ten per cent (10 per cent) of amount of the bid, provided that said certified check shall not be less than $500.00 nor more than $20,000.00, and be delivered at the above place on or before the hour named. Copies of the standard proposal form will be furnished on application to Geo. K. Allen, Jr., County Engineer.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a statement of equipment properly filled out.

By order of a resolution of the Board of Chosen Freeholders of the County of Monmouth passed at a regularly adjourned meeting on Jan. 20, 1922.

GRANT PATTERSON, JR.,
Clerk of Board of Freeholders of Monmouth Co., N. J.

Bids: Mar. 2.

Gate Valves, Steel Castings, Etc.

New York, N. Y.

Sealed bids will be received by the Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Centre and Chambers streets, New York City, until 11 a.m. on Thursday, March 2, 1922, for Contract 212, for furnishing and delivering gate-valves, steel castings and appurtenances for the steel pipes of the Catskill aqueduct, all as set forth in the specifications. All deliveries shall be made f.o.b. at designated localities in Ulster, Orange, Putnam and Westchester counties, New York.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, forms of bid and contract, specifications, contract drawings, etc., can be obtained at the office of the Secretary at the above address, by depositing the sum of ten dollars ($10) in cash or its equivalent for each pamphlet. For further particulars apply to the office of the Chief Engineer at the above address.

GEORGE J. GILLESPIE,
President.

JAMES P. SINNOTT,
Commissioners, Board of Water Supply.
BENJ. F. EINBIGIER, Secretary.